User Manual

CanMap® Streetfiles
Version 7.2

really smart spatial solutions™

www.dmtispatial.com

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Table of Contents

About DMTI Spatial™

DMTI Spatial Inc. is Canada's leading spatial solutions provider. We enable users to understand their customers, optimize resources, realize opportunities, maximize profitability and make more informed decisions through accurate products and innovative thinking.

DMTI Spatial publishes precision built street map, rail and routing data (CanMap®), a detailed water layer, and innovative geocoding and address management software (GeoPinpoint™). In addition, DMTI Spatial publishes a full range of positionally accurate geospatial data products including: enhanced points of interest (EPOI), census data and boundaries, postal geography, topographic maps, and US mapping data. As part of a complete business geographic solution, DMTI Spatial offers a wide range of GIS services, consulting, and software training.

Established in 1994, DMTI Spatial is committed to setting the standard within the GIS industry for precision built spatial data and geocoding software products.

At DMTI Spatial, we believe that our true strength comes from working closely with our customers and providing innovative solutions to meet their strategic business objectives. As Canada's premier spatial solutions provider we pride ourselves with having worked with North America's leading organizations to support their mission critical applications.

DMTI Spatial works with large and small organizations representative of a wide variety of industries:

- Agriculture
- Banking/Finance
- Consulting
- Education
- Emergency Services
- Engineering
- Environmental
- Forestry
- Government
- Health
- High Technology
- Insurance
- Manufacturing
- Media
- Mining
- Real Estate
- Retail
- Telecommunications
- Transportation
- Utilities

We are a member of the ESRI Canada Business Partner Program, and winner of the 2001 ESRI Worldwide New Business Partner of the Year Award. Strategic business partner of Tele Atlas North America, and winner of the Markham Board of Trade 2000 Award for Entrepreneurship and Innovation. Recipient of The Association of Canadian Map Libraries and Archives (ACMLA) 2002 Certificate of Appreciation.

ESRI Canada Business Partner

Tele Atlas

Really Smart Spatial Solutions™

Through the application of its products and services, DMTI Spatial has been involved with projects such as: location-based services, logistics planning, emergency dispatch, facilities management, data management, customer care, address management, land base development in support of network planning, and marketing/demographic analysis applications.

DMTI Spatial can provide all of the components necessary for the acquisition, implementation, operation and maintenance of a successful GIS system within companies of all sizes. Through its product and service offering, DMTI Spatial can provide users with 5 key components:

1. Accurate, detailed and compatible data
2. Comprehensive maintenance program
3. GIS software
4. Consulting and services
5. Software training

DMTI Spatial™ Product & Service Portfolio

DMTI Spatial's product & service offering includes:

CanMap® - *Digital Map Data for Canada*
- CanMap® Streetfiles
- CanMap® RouteLogistics
- CanMap® Rail
- CanMap® Major Roads and Highways
- CanMap® Parks
- CanMap® Water

MultiNet™ - *Digital Map Data for USA*
- Tele Atlas MultiNet™

Municipal Amalgamations
- Municipality Amalgamation File (MAF)

Business & Recreational Points of Interest
- Enhanced Points Of Interest (EPOI)

GeoPinpoint™ Suite
- Canada's Geocoding Solution
- Modular Architecture
- Windows Standalone Desktop Version
- UNIX, Java Wrapper, ActiveX (DLL Version)

Topographic Data and Base Maps
- Canadian Atlas Map Bundle (CAMB)
- Populated Placenames
- National Topographic Data Base (NTDB)
- 30 & 90m Digital Elevation Models (DEM)
- Clutter Data

Postal Geography & Data
- Six-Digit Postal Code File
- Enhanced Postal Code File
- Forward Sortation Area (FSA) Boundary File

1996 Census Boundaries & Demographic Data
- Enumeration Area (EA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

2001 Census Boundaries
- Dissemination Area (DA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

GIS Software
- Contour Modeling and Display
- Demographic Profiling and Lifestyle Targeting
- Geocoding and Mapping Software
- Routing and Logistics

Consulting and Services
- Address Management Solution (AMS)
- Application Development
- Database Marketing
- Data Conversion and Creation
- Database Scrubbing
- Geocoding Services
- GIS Consulting
- Technical Support

Error Reporting & Wish List Services

DMTI Spatial is committed to building the best products possible for our customers. By using our data every day in your mission critical application you are our best product tester. Please let us know if you have found an error in any of our products so that we can make the correction for the next release.

This is your opportunity to provide feedback directly to the DMTI Spatial Product Development Team. Please be as specific as possible so that we can improve our products quickly and accurately. To access the Error Reporting Web page please visit: http://www.dmtispatial.com/error_reporting.html or send an e-mail to: fixme@dmtispatial.com

If you have an idea for a new product or an existing product enhancement, please submit your ideas to the Wish List Web page: http://www.dmtispatial.com/product_wish_list.html or send an e-mail to: wishlist@dmtispatial.com

Over the coming months DMTI Spatial will keep you informed of new product releases, enhancements and strategic alliances. Our goal is to provide you with powerful knowledge based tools to help you attain and maintain your competitive advantage.

Contact Information

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About CanMap® Streetfiles

For the most up-to-date information regarding CanMap® Streetfiles please visit:
http://www.dmtispatial.com/home.asp

File Directory, Structure and Content

File Properties

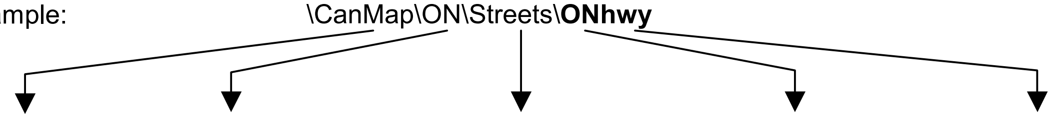
Property	Description
Coverage	Nationwide
Currency	Annual maintenance available
Level of Accuracy	Ranging from the National Topographic Data Base (NTDB) standard to sub-meter accuracy
File Sizes	Please contact DMTI Spatial if you require this information
Projection	All files are displayed as unprojected Longitude-Latitude
Datum	All files are in NAD83 datum
Formats	ESRI and MapInfo[1]

File Naming Convention

The general file naming convention for the CanMap suite of products is as follows:

Geographic Area Abbreviation + File Content Abbreviation

example: \CanMap\ON\Streets**ONhwy**



Product Directory	**Geographic Area Directory**	**General Content Directory**	**Geographic Area Abbreviation[2]**	**File Content Abbreviation**
CanMap	ON	Streets	ON	hwy

1 Custom formats available upon request
2 Geographic Area Abbreviation

Indicates the geographic coverage for each file. It is also used as the name of the Geographic Area Directory, which indicates the geographic coverage for all files contained within it. For a list of common Geographic Abbreviations and their descriptions, please refer to Appendix A entitled: Geographic Area Abbreviations.

Directory Structure

CanMap Streetfiles orders come organized in the following directory structure:

Directory Name	Description
CanMap	Product Directory
AREA	Geographic Area Directory
Canada	Canada Directory
POI	Points of Interest Directory
Streets	Streets Directory
Topo	Topographic Directory

Points of Interest Directory

Filename	Description
*AREA***cpl**	Car Pool Lots
*AREA***edu**	Education
*AREA***glf**	Golf Courses
*AREA***hcr**	Health Care
*AREA***ppn**	Populated Placenames
*AREA***tol**	Toll Booths

Streets Directory

Filename	Description
*AREA***exc**[1]	Expressways Casements
*AREA***hpc**	Primary Highways Casements
*AREA***hrd**	Major Roads and Highways
*AREA***hsc**	Secondary Highways Casements
*AREA***hwy**	Highways
*AREA***lnk**	Canada\USA Roads Linkages
*AREA***lrc**	Local Roads Casements
*AREA***maf**	Municipal Amalgamations File
*AREA***mrc**	Major Roads Casements
*AREA***mun**	Municipality Boundaries
*AREA***rds**	Roads
*AREA***rds_lut**	Roads Lookup Table
*AREA***tlc**	Trails Casements

[1] Casements not available in ArcInfo Interchange Format (*.e00)

Topographic Directory

Filename	Description
*AREA***bf**	Building Footprints
*AREA***bp**	Building Points
*AREA***hs**	Hydrographic Structures
*AREA***hy**	Hydrography
*AREA***ir**	Industrial and Resource
*AREA***ll**	Land Feature Labels
*AREA***lu**	Land Use
*AREA***ot**	Other Transportation
*AREA***ph**	Physiography
*AREA***pk**	National and Provincial Parks
*AREA***pt**	Pipelines and Transmission
*AREA***ra**	Recreation and Amusement
*AREA***rl**	Rail
*AREA***rp**	Recreation and Amusement - Regions
*AREA**rs***	Rail Stops
*AREA***ta**	Transportation Related
*AREA***ve**	Vegetation
*AREA***we**	Wetlands
*AREA***wl**	Water Feature Labels
*AREA***btl**	Bus Transit – Lines
*AREA***btp**[1]	Bus Transit – Points
*AREA***rtl**	Rail Transit – Lines
*AREA***rtp**[2]	Rail Transit - Points

Canada Directory

Directory and File Name	Description
\CANADA\rmn	Regional Municipality(ies)
\CANADA\wat	National Water
\CANADA\prv	Provincial Boundaries for Canada
\CANADA\top	DMTI Spatial Topographic boundaries for Canada
\CANADA\acb	Canadian Area Code boundaries
\CANADA\tzs	Canadian Time Zones (Standard Time)
\CANADA\tzv	Canadian Time Zones (Savings Time)
\CANADA\Census\1996[3]\ Csd\Bdy\Data\	1996 Census Subdivision Boundaries and Data

For file structure and content of each of the layers contained in CanMap Streetfiles, see Appendix D: Data Dictionary.

[1] Transit lines and points available in selected major urban centers only
[2] **Attention ArcInfo, ArcView, ArcGIS and MapGuide users**: All 2 character Topographic file names listed above will be suffixed with a 'p' (point), 'l' (polyline), or 'r' (region) to indicate the object type contained in the file. For example, the hy (Hydrography) theme will be provided as hyp (containing points), hyl (containing lines), and hyr (containing regions) files. You may or may not receive all topographic files depending on whether or not they exist in your particular geographical area.
[3] 1996 Census Subdivision (CSD) Boundaries and Data are currently being provided free of charge. Please refer to the document Cen96CSD.pdf that is included in your shipment, for a full description and detailed file structure of all the CSD boundaries and data included in the Canada directory. See also Appendix I – entitled Census Subdivision Boundaries and Data

Using CanMap Streetfiles

Viewing CanMap Streetfiles

Packaged with CanMap Streetfiles are several custom viewing files: MapInfo Workspaces (*.wor); ArcView and ArcGIS Project Files (*.apr and *.mxd); or MapGuide Map Window Files (*.mwf). Located in the general content directory, these viewing files have been provided to maximize the ease of use of CanMap Streetfiles by opening and intelligently layering various data layers and displaying them based on appropriate viewing scales.

If you wish to use CanMap Streetfiles without the aid of the viewing files, please refer to Appendix E: Suggested CanMap Suite of Products Layering.

The *rds.wor viewing file offers a limited number of files for reference purposes only. In contrast, the *top.wor viewing file includes most of the files in the CanMap Streetfiles product for mapping and analysis. Included with the Bonus Canada directory is a Canada viewing file.

Viewing Files (*.wor, *.apr, *.mxd, *.mwf)

Filename	Description
*AREA***rds**	Opens and zoom layers populated placenames, roads, major roads and highways, highways, municipality boundaries, regional municipality boundaries, national water, and provincial boundaries.
*AREA***top**	Opens and zoom layers almost all of the CanMap files. Includes labeling of roads, major roads & highways, highways, populated placenames, municipality boundaries, regional municipality boundaries, provincial boundaries.
Canada	Opens and zoom layers topographic coverage areas, regional municipality boundaries, provincial boundaries and national water for all of Canada.

Appendix A: Geographic Area Abbreviations

Provinces and Territories

The Province/Territory column in the table below, contains the full names of the 13 Provinces and Territories of Canada. The Abbreviation column contains the Province and Territory abbreviations found in the CanMap suite of products and corresponds to the standard abbreviations used by Canada Post. These abbreviations represent valid Provinces and Territories for geocoding parsed data within GeoPinpoint™. The Code column contains the Statistics Canada Province and Territory Codes.

Province/Territory	Abbreviation	Code
Alberta	AB	48
British Columbia	BC	59
Manitoba	MB	46
New Brunswick	NB	13
Newfoundland and Labrador	NL	10
Nova Scotia	NS	61
Northwest Territories	NT	12
Nunavut	NU	62
Ontario	ON	35
Prince Edward Island	PE	11
Quebec	QC	24
Saskatchewan	SK	47
Yukon Territories	YT	60

Topographic Coverage Areas

Topographic Coverage Areas represent the 746 geographic regions in Canada for which topographic data is provided in the CanMap Streetfiles and CanMap® RouteLogistics products. The following is a partial list of the geographic regions included within the topographic coverage areas file (CANtop). For a complete listing please refer to the CANtop file located in the Canada Directory.

Topographic Coverage Area	Abbreviation	Province
CALGARY	CLGRY	AB
EDMONTON	EDMNT	AB
VANCOUVER	VNCVR	BC
VICTORIA	VCTRA	BC
WINNIPEG	WINPG	MB
FREDERICTON	FRDTN	NB
SAINT JOHN	STJON	NB
LABRADOR CITY	LBDRC	NL
ST. JOHN'S	STJHN	NL
HALIFAX	HALFX	NS
YELLOWKNIFE	YLKNF	NT
IQALUIT	IQALT	NU
GREATER TORONTO AREA	GTA	ON
HAMILTON NIAGARA	HAMNG	ON
OTTAWA	OTAWA	ON
CHARLOTTETOWN	CHLTN	PE
HULL	HULL	QC
MONTREAL	MNTRL	QC
QUEBEC CITY	QBCTY	QC
REGINA	RGNA	SK
WHITEHORSE	WTHRS	YT

Note: Please contact DMTI Spatial for information regarding the municipalities and/or regional municipalities that constitute each Topographic Coverage Area.

Appendix B: CanMap® Street Types and Directions

Street Types

The Street Type column in the table below contains the full name of each street type. Both English and French types are listed. The Abbreviaton column contains the street types found in the CanMap® suite of products and represent valid street types for geocoding parsed data within GeoPinpoint™. All street types correspond to the standard abbreviations used by Canada Post. The Language column distinguishes between street types in English (E) and street types in French (F).

Street Type	Abbreviation	Language
Abbey	ABBEY	E
Acres	ACRES	E
Allée	ALLÉE	F
Alley	ALLEY	E
Autoroute	AUT	F
Avenue	AV	F
Avenue	AVE	E
Bay	BAY	E
Beach	BEACH	E
Bend	BEND	E
Boulevard	BLVD	E
Boulevard	BOUL	F
By-Pass	BYPASS	E
Byway	BYWAY	E
Centre	C	F
Campus	CAMPUS	E
Cape	CAPE	E
Carr	CAR	F
Carrefour	CARREF	F
Cul-de-sac	CDS	E
Cercle	CERCLE	F
Chemin	CH	F
Chase	CHASE	E
Circle	CIR	E
Circuit	CIRCT	E
Close	CLOSE	E
Common	COMMON	E
Concession	CONC	E
Côte	CÔTE	F
Cour	COUR	F
Cours	COURS	F
Cove	COVE	E

Street Type	Abbreviation	Language
Crescent	CRES	E
Corners	CRNRS	E
Croissant	CROIS	F
Crossing	CROSS	E
Court	CRT	E
Centre	CTR	E
Dale	DALE	E
Dell	DELL	E
Diversion	DIVERS	E
Downs	DOWNS	E
Drive	DR	E
Échangeur	ÉCH	F
End	END	E
Esplanade	ESPL	E
Estates	ESTATE	E
Expressway	EXPY	E
Extension	EXTEN	E
Farm	FARM	E
Field	FIELD	E
Forest	FOREST	E
Front	FRONT	E
Freeway	FWY	E
Gate	GATE	E
Gardens	GDNS	E
Glade	GLADE	E
Glen	GLEN	E
Green	GREEN	E
Grounds	GRNDS	E
Grove	GROVE	E
Harbour	HARBR	E
Heath	HEATH	E
Highlands	HGHLDS	E

Street Type	Abbreviation	Language
Hill	HILL	E
Hollow	HOLLOW	E
Heights	HTS	E
Highway	HWY	E
Île	ÎLE	F
Impasse	IMP	E
Inlet	INLET	E
Island	ISLAND	E
Key	KEY	E
Knoll	KNOLL	E
Landing	LANDNG	E
Lane	LANE	E
Line	LINE	E
Link	LINK	E
Lookout	LKOUT	E
Limits	LMTS	E
Loop	LOOP	E
Mall	MALL	E
Manor	MANOR	E
Maze	MAZE	E
Meadow	MEADOW	E
Mews	MEWS	E
Montée	MONTÉE	F
Moor	MOOR	E
Mount	MOUNT	E
Mountain	MTN	E
Orchard	ORCH	E
Parade	PARADE	E
Parc	PARC	F
Passage	PASS	E
Path	PATH	E
Pines	PINES	E
Park	PK	E
Parkway	PKY	E
Pathway	PTWAY	E
Place	PL	E
Place	PLACE	F
Plateau	PLAT	E
Plaza	PLAZA	E
Port	PORT	E
Point	PT	E
Pointe	POINTE	F

Street Type	Abbreviation	Language
Private	PVT	E
Promenade	PROM	E
Quai	QUAI	F
Quay	QUAY	E
Ramp	RAMP	E
Rang	RANG	F
Road	RD	E
Rond-point	RDPT	F
Range	RG	E
Ridge	RIDGE	E
Rise	RISE	E
Ruelle	RLE	F
Row	ROW	E
Route	RTE	E
Rue	RUE	F
Run	RUN	E
Sentier	SENT	E
Square	SQ	E
Street	ST	E
Subdivision	SUBDIV	E
Terrace	TERR	E
Thicket	THICK	E
Townline	TLINE	E
Towers	TOWERS	E
Trail	TRAIL	E
Turnabout	TRNABT	E
Terrasse	TSSE	F
Vale	VALE	E
Via	VIA	E
View	VIEW	E
Villas	VILLAS	E
Village	VILLGE	E
Vista	VISTA	E
Voie	VOIE	F
Walk	WALK	E
Way	WAY	E
Wharf	WHARF	E
Wood	WOOD	E
Wynd	WYND	E

Street Directions

The Street Direction column in the table below contains the full name of each street direction. Both English and French directions are listed. The abbreviation column contains the street directions found in the CanMap® suite of products and represent valid street directions for geocoding parsed data within GeoPinpoint™. All street directions correspond to the standard abbreviations used by Canada Post. The Language column distinguishes between street directions in English (E) and street directions in French (F).

Street Direction	Abbreviation	Language
East	E	E
Est	E	F
Nord	N	F
NordEst	NE	F
NordOuest	NO	F
North	N	E
NorthEast	NE	E
NorthWest	NW	E
Ouest	O	F
South	S	E
SouthEast	SE	E
SouthWest	SW	E
Sud	S	F
SudEst	SE	F
SudOuest	SO	F
West	W	E

Appendix C: Cartographic Road Classifications

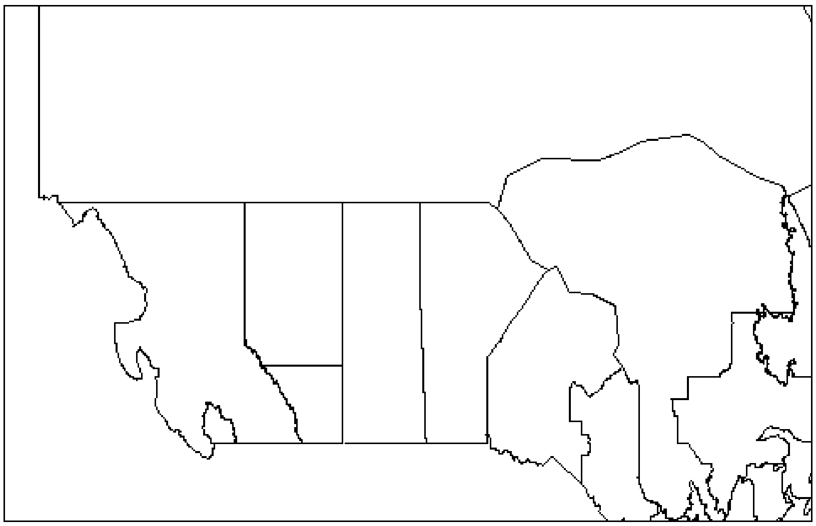
The Carto column in the table below represents the cartographic classification for the roads in the CanMap suite of products.

Carto	Name	Description	Appearance
1	Expressway	Expressways and 400 series highways, e.g. Highway 401, Don Valley Parkway	Teal and White Interleaved
2	Primary Highway	Primary Highway, e.g. Highway 7, Highway 11	Thick Red
3	Secondary Highway	Secondary Highways	Thick Orange
4	Major Road	Major road or Arterial road, e.g. Bayview Ave	Thick Black
5	Local Road	Subdivision road in a city or gravel road in a rural area	Thin Black
6	Trail	Trails	Thin Green
20	Ferry Route	Approximate travel route of Ferry	Thin Dark Grey Dashed
21	Ferry Ramp	Ferry Ramp	Thin Dark Grey
22	Ice Road	Approximate travel route of Ice Road	Thin Dark Grey Dashed
23	Ice Ramp	Ice Ramp	Thin Dark Grey
24	Ferry Route/Ice Road	Approximate travel route of Ferry/Ice Road	Thin Dark Grey Dashed
25	Ferry/Ice Ramp	Ferry/Ice Ramp	Thin Dark Grey

Appendix D: Data Dictionary

CanMap Streetfiles Data Structure and Content

Area Code Boundaries (acb)



Location

\Canada\ directory

Structure

Field Name	Type	Size	Description
AreaCode	Character	8	Area Code
Prov	Character	8	Province (Abbreviation). Records may contain multiple abbreviations in cases where area codes are shared between provinces.

Content

The Area Code Boundaries are based on CanMap Streetfiles Municipality Boundaries. They are useful for Call Center applications. It is recommended that the National Water file be layered on top of the Area Code Boundaries to provide a cartographically pleasing map. The following list contains the provinces and territories of Canada along with their telephone Area Codes:

Province	Area Code	Province	Area Code
AB	403	ON	613
AB	780	ON	705
BC	250	ON	807
BC	604	ON	905/289
MB	204	QC	418
NB	506	QC	450
NL	709	QC	514
NS/PE	902	QC	819
ON	416/647	SK	306
ON	519	YT/NT/NU	867

Building Footprints (bf)



Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type
Category	Character	40	Feature Category

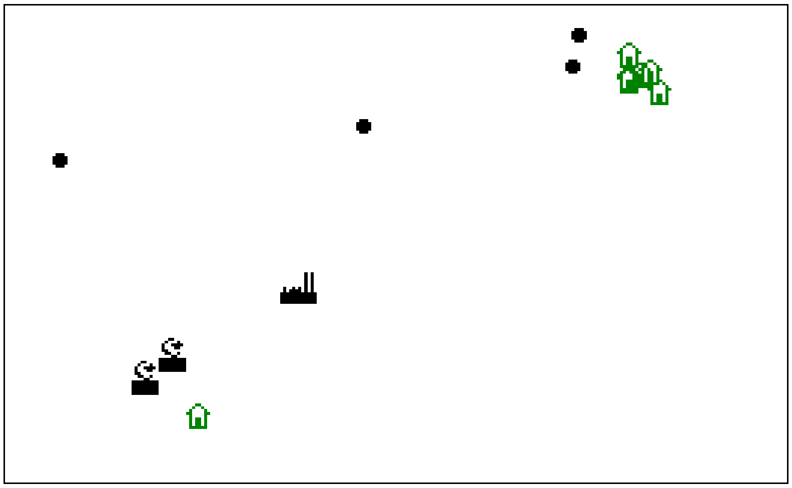
Content

Code	Feature
106	ARENA
107	ARMOURY
108	AUTOMOBILE PLANT
109	BARN/MACHINERY SHED
111	CEMENT PLANT
112	CHEMICAL PLANT
113	CHURCH
114	CITY HALL
115	COAST GUARD STATION
116	COLLEGE
117	COMMUNITY CENTRE
118	CONVENT
119	CORRECTIONAL INSTITUTE
120	COURTHOUSE
120	COURT HOUSE
121	CUSTOMS POST
122	DOME
123	ELECTRIC POWER STATION

Code	Feature
124	FACTORY
125	FILTRATION PLANT
126	FIRE STATION
127	FIRE/POLICE STATION
128	FISH HATCHERY
129	FISH PROCESSING PLANT
130	GRAIN ELEVATOR
131	HALL
132	HIGHWAY SERVICE CENTRE
133	HOSPITAL
134	HOSTEL
135	HOTEL
136	KILN (TOBACCO)
137	LUMBER MILL
139	MEDICAL CENTRE
140	MONASTERY
141	MOTEL
142	MUNICIPAL HALL
143	MUSEUM
144	NON-CHRISTIAN PLACE OF WORSHIP
145	OBSERVATORY
146	OIL/GAS FACILITIES BUILDING
146	GAS AND OIL FACILITIES
147	OTHER
149	PARLIAMENT BUILDING
150	PENITENTIARY
151	PETROLEUM REFINERY
152	PLANT
153	POLICE STATION
154	PULP/PAPER MILL
155	RAILWAY STATION
156	REFORMATORY
157	SANATORIUM
158	SATELLITE-TRACKING STATION
159	SAWMILL
160	SCHOOL
161	SEMINARY
162	SENIOR CITIZENS HOME
163	SEWAGE TREATMENT PLANT
164	SHIPYARD
165	SHOPPING CENTRE
166	SPORTSPLEX
167	STEEL MILL
168	TRADING POST
169	UNIVERSITY
170	WARDEN/RANGER STATION
171	WATER TREATMENT PLANT
172	WEIGH SCALE (HIGHWAY)

Code	Feature
172	WEIGHT SCALE
174	GREENHOUSE
175	PENAL BUILDING
176	LODGING FACILITIES
177	INDUSTRIAL BUILDING
178	RELIGIOUS BUILDING
179	EDUCATIONAL BUILDING
585	FORT: GENERIC/UNKNOWN
585	FORT
618	GREENHOUSE
1220	STADIUM
1220	STADIUM: GENERIC/UNKNOWN
11000	AIRPORT BUILDING

Building Points (bp)



Location

\Topo\ directory

Structure

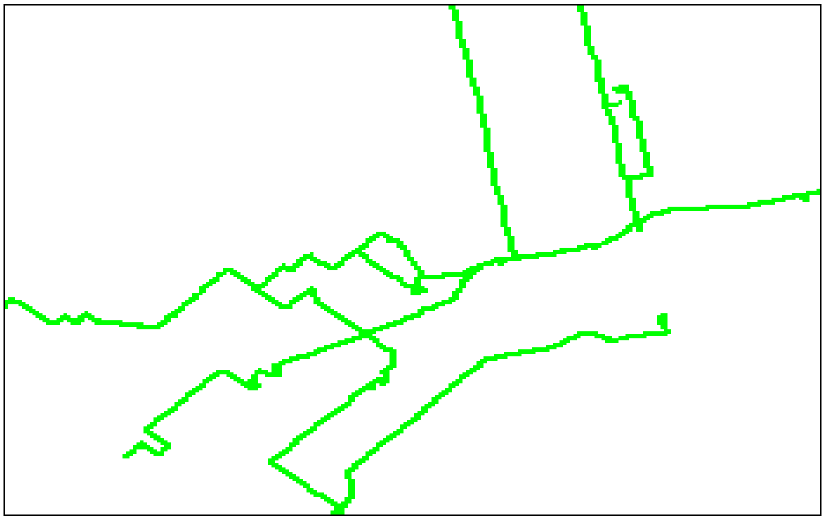
Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type
Category	Character	40	Feature Category

Content

Code	Feature
109	BARN/MACHINERY SHED
110	CABIN
113	CHURCH
114	CITY HALL
115	COAST GUARD STATION
118	CONVENT
122	DOME
123	ELECTRIC POWER STATION
125	FILTRATION PLANT
126	FIRE STATION
127	FIRE/POLICE STATION
128	FISH HATCHERY
129	FISH PROCESSING PLANT
130	GRAIN ELEVATOR
136	KILN (TOBACCO)

Code	Feature
137	LUMBER MILL
140	MONASTERY
144	NON-CHRISTIAN PLACE OF WORSHIP
146	OIL/GAS FACILITIES BUILDING
148	OUTBUILDING
151	PETROLEUM REFINERY
155	RAILWAY STATION
159	SAWMILL
163	SEWAGE TREATMENT PLANT
164	SHIPYARD
167	STEEL MILL
170	WARDEN/RANGER STATION
171	WATER TREATMENT PLANT
174	GREENHOUSE
178	RELIGIOUS BUILDING
250	CEMETERY
684	LOOKOUT
1119	SHRINE

Bus Transit – Lines (btl)[1]



Location

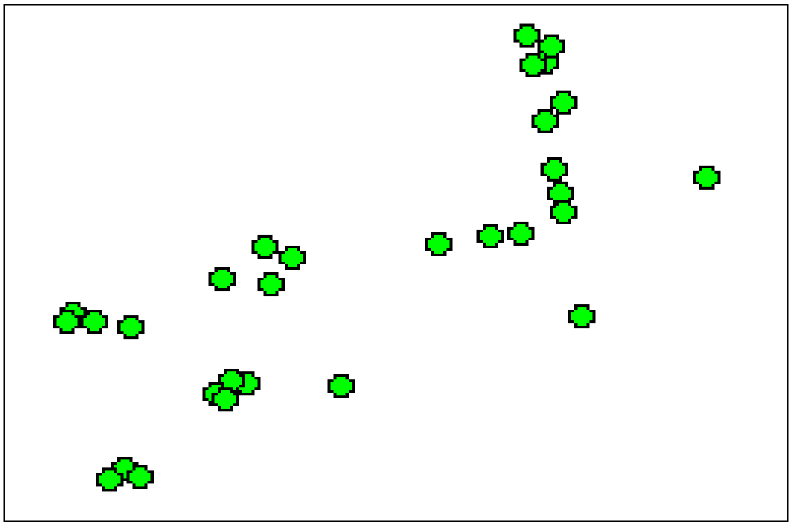
\Topo\ directory

Structure

Field Name	Type	Size	Description
Route	Character	100	Route name
System	Character	100	Transit System name
Type	Character	20	Type (Mode) of Transit

[1] Available in selected major urban centers only

Bus Transit - Points (btp)



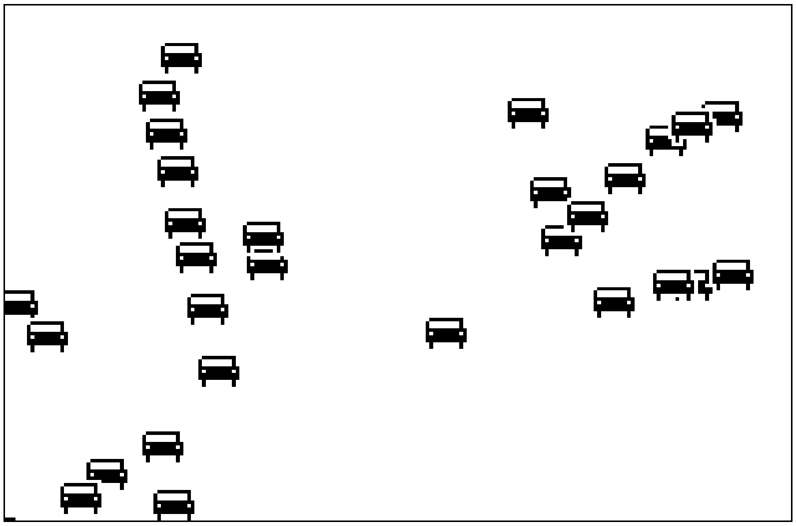
Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Stop	Character	100	Stop name
Route	Character	100	Route name
System	Character	100	Transit System name
Type	Character	20	Type (Mode) of Transit

Car Pool Lots (cpl)



Location

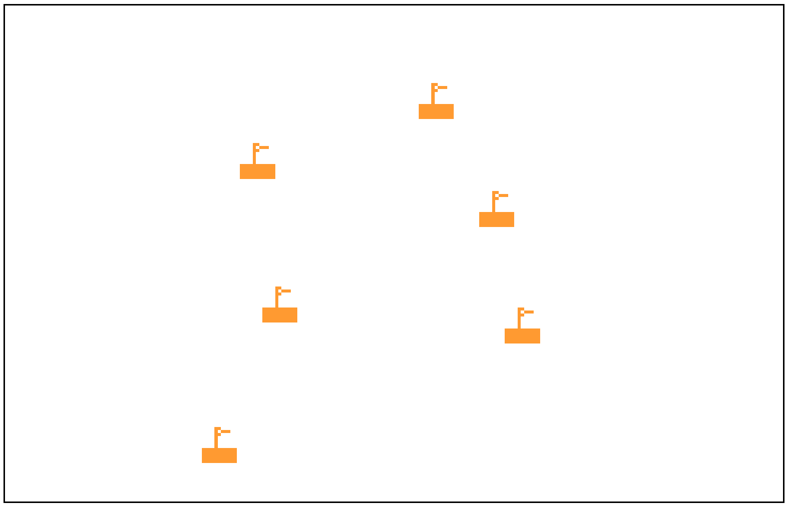
\POI\ directory

Structure

Field Name	Type	Size	Description
Name	Character	125	Car Pool Lot name
Location	Character	100	Car Pool Lot Location
City	Character	68	City (or closest Municipality)
Prov	Character	2	Province (Abbreviation)
Exit_Num	Character	5	Highway Exit Number at Car Pool Lot Location
Direction	Character	5	Direction of Highway at Car Pool Lot Location
Prec_Code[1]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
POI_ID	Character	15	Unique ID

[1] For details please refer to the Appendix F: Precision Codes

Education (edu)



Location

\POI\ directory

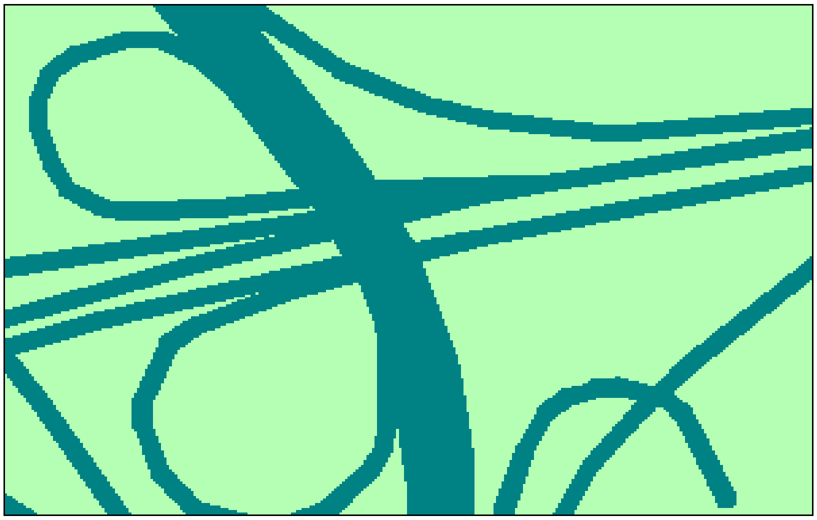
Structure

Field Name	Type	Size	Description
Name	Char	125	Educational facility name
Prec_Code[1]	Char	2	Code indicating the positional accuracy or precision of the geocoded feature
AttribCode	Char	2	Code to indicate the accuracy of the attribute data
POI_ID	Char	15	Unique ID

Content

Includes Elementary, High Schools, Colleges, Cégeps and Universities.

Expressway Casements (exc)



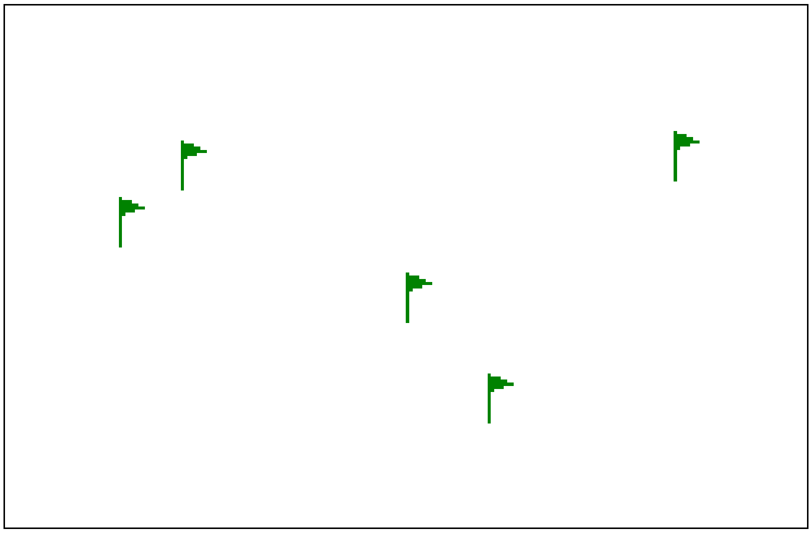
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	64	Street Title
Rds_Id	Decimal	9,0	UniqueId of related Roads (rds) segment

Golf Courses (glf)



Location

\POI\ directory

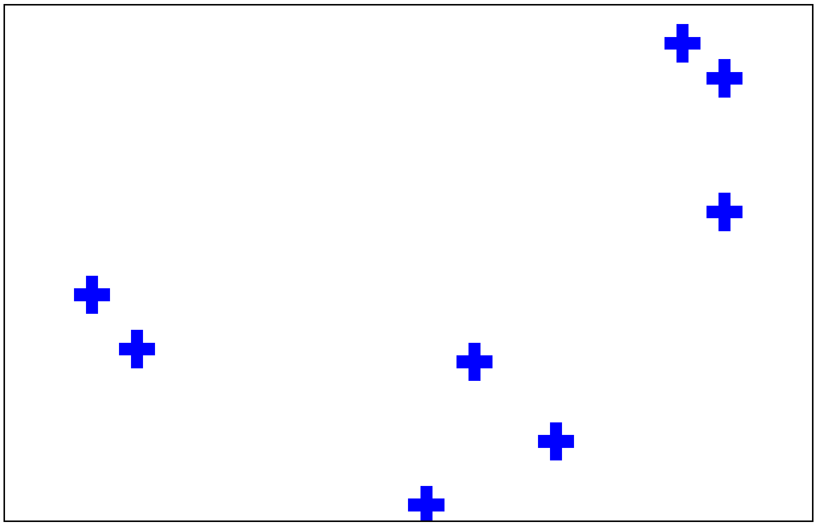
Structure

Field Name	Type	Size	Description
Name	Char	125	Golf Course name
Prec_Code[1]	Char	2	Code indicating the positional accuracy or precision of the geocoded feature
AttribCode	Char	2	Code to indicate the accuracy of the attribute data
POI_ID	Char	15	Unique ID

Content

Includes both Private and Public golf courses as well as their locations, phone numbers and number of holes.

Health Care (hcr)



Location

\POI\ directory

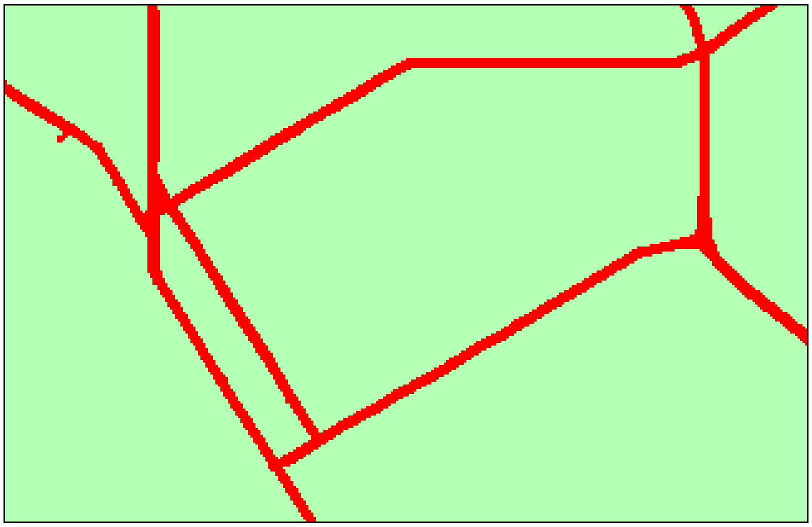
Structure

Field Name	Type	Size	Description
Name	Char	125	Health Care facility name
Prec_Code[1]	Char	2	Code indicating the positional accuracy or precision of the geocoded feature
AttribCode	Char	2	Code to indicate the accuracy of the attribute data
POI_ID	Char	15	Unique ID (link to main POI database)

Content

Includes Hospitals, Long-Term Care Centers, Nursing Stations, Outpatient Clinics and Community Health Centers.

Primary Highway Casements (hpc)



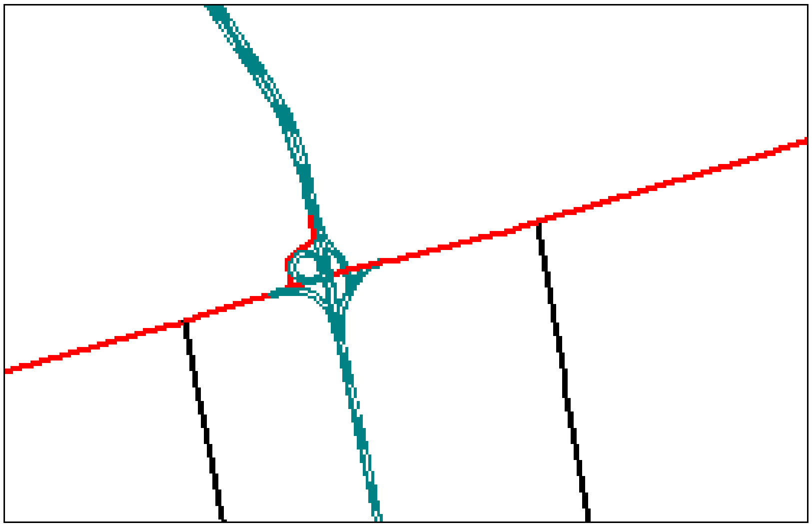
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	64	Street Title
Rds_ Id	Decimal	9,0	UniqueID of related Roads (rds) segment

Major Roads and Highways (hrd)



Location

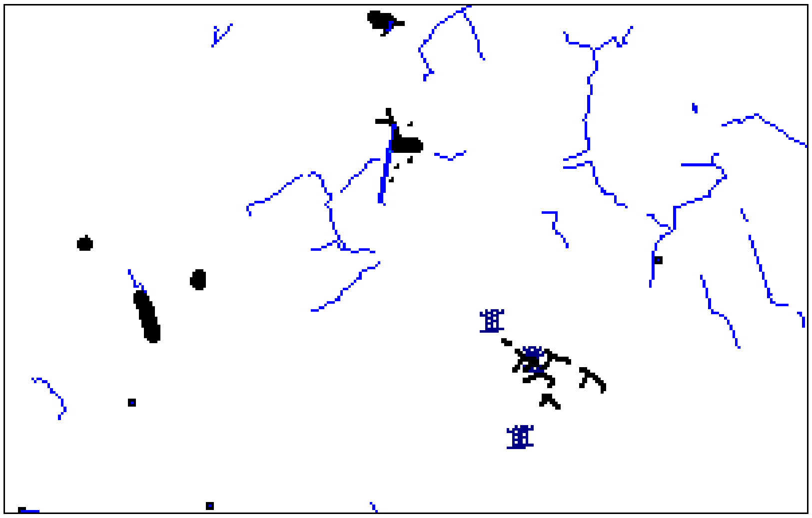
\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	69	Street Title
Carto[1]	Decimal	3,0	Cartographic Road Classification
Left_Mun	Character	68	Municipality
Right_Mun	Character	68	Municipality
Left_Maf	Character	70	Municipal Amalgamation
Right_Maf	Character	70	Municipal Amalgamation
Left_Fsa	Character	3	Forward Sortation Area
Right_Fsa	Character	3	Forward Sortation Area
Left_Prv	Character	2	Province (Abbreviation)
Right_Prv	Character	2	Province (Abbreviation)
UniqueId	Decimal	9,0	Unique Identifier of Street segment

[1] For details please refer to the Appendix C: Cartographic Road Classifications

Hydrographic Structures (hs)



Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

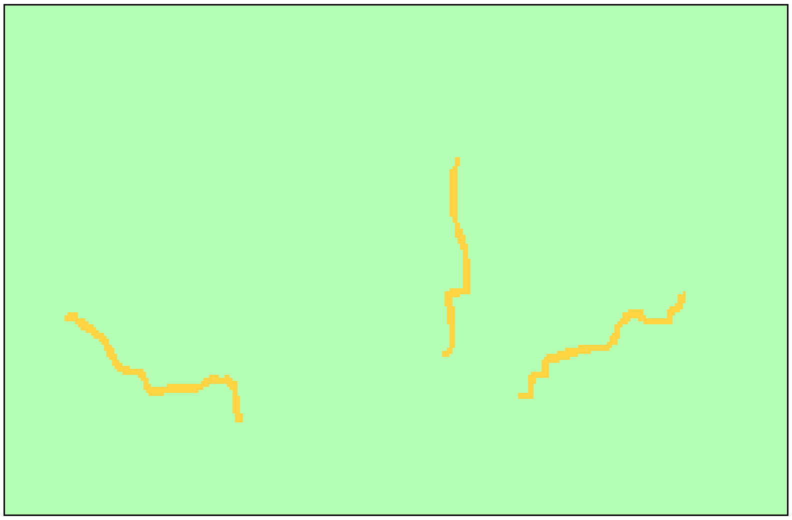
Content

Code	Feature
58	BOAT RAMP
58	BOAT RAMP: GENERIC/UNKNOWN
80	BREAKWALL/BREAKWATER
80	BREAKWATER: UNKNOWN
275	CONDUIT: ABOVEGROUND, PENSTOCK
275	CONDUIT: GROUND LEVEL, PENSTOCK
276	CONDUIT: UNDERGROUND, PENSTOCK
277	CONDUIT: ABOVEGROUND, OTHER
277	CONDUIT: GROUND LEVEL, OTHER
278	CONDUIT: UNDERGROUND, OTHER
289	CONDUIT BRIDGE: GENERIC/UNKNOWN
359	DAM
360	DAM: OTHER
361	DAM: SLUICE GATE
405	DRYDOCK
429	DYKE/LEVEE
429	DYKE/LEVEE: UNKNOWN

Code	Feature
475	EXPOSED SHIPWRECK
486	FALLS
519	FISH LADDER
519	FISH LADDER: GENERIC/UNKNOWN
530	FISH POUND
530	FISH POUND: GENERIC/UNKNOWN
541	FLOODED AREA
651	IRRIGATION CANAL/DITCH
662	KELP: GENERIC/UNKNOWN
673	LOCK GATE: GENERIC/UNKNOWN
673	LOCK GATE
743	NAVIGABLE CANAL: ABANDONED
744	NAVIGABLE CANAL: OPERATIONAL
755	NAVIGATION BEACON
766	NAVIGATION LIGHT
766	NAVIGATIONAL AID: NAVIGATION LIGHT
767	NAVIGATIONAL AID: NAVIGATION BEACON
777	OBSTACLE IN WATER
847	PERMANENT SNOW AND ICE: OTHER
909	POND PARTITION: GENERIC/UNKNOWN
910	POND PARTITION: FISH POUND
911	POND PARTITION: RESERVOIR
912	POND PARTITION: WASTE
967	RAPIDS
979	RESERVOIR: OPEN, DRINKING WATER RESERVOIR
980	RESERVOIR: UNDERGROUND, DRINKING WATER RESERVOIR
981	RESERVOIR: OPEN,DUGOUT
982	RESERVOIR: OPEN,FILTRATION POND
1033	ROCK IN WATER
1044	ROCKY LEDGE/REEF
1044	ROCKY LEDGE/REEF: GENERIC/UNKNOWN
1108	SEAWALL
1108	SEAWALL: GENERIC/UNKNOWN
1163	SLIP
1174	SLUICE GATE
1209	SPRING
1209	SPRING: GENERIC/UNKNOWN
1453	WATER BODY: IRRIGATION CANAL
1503	WHARF
1503	WHARF: UNKNOWN
1514	WIND-OPERATED DEVICE: GENERIC/UNKNOWN
1666	LIQUIDS DEPOT/DUMPS: LIQUID WASTE, SEWAGE POND
1667	LIQUIDS DEPOT/DUMP: LIQUID WASTE, SETTLING POND
1668	LIQUIDS DEPOT/DUMP: LIQUID WASTE, UNKNOWN
1669	LIQUIDS DEPOT/DUMP: WATER, OTHER

Code	Feature
1670	LIQUIDS DEPOT/DUMP: WATER, FILTRATION POND
1671	LIQUID DEPOT/DUMP: WATER, DRINKING WATER
1681	HAZARD TO NAVIGATION: ROCK IN WATER
1682	HAZARD TO NAVIGATION: EXPOSED SHIPWRECK
1683	HAZARD TO NAVIGATION: OBSTACLE IN WATER
1701	WATER DISTURBANCE: FALLS
1702	WATER DISTURBANCE: RAPID
1710	UNDERGROUND RESERVOIR: GENERIC/UNKNOWN

Secondary Highway Casements (hsc)



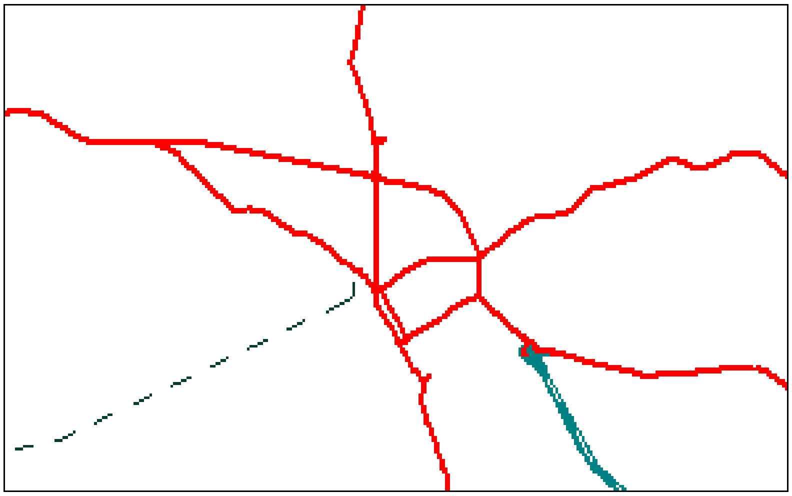
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	64	Street Title
Rds_ Id	Decimal	9,0	UniqueId of related Roads (rds) segment

Highways (hwy)



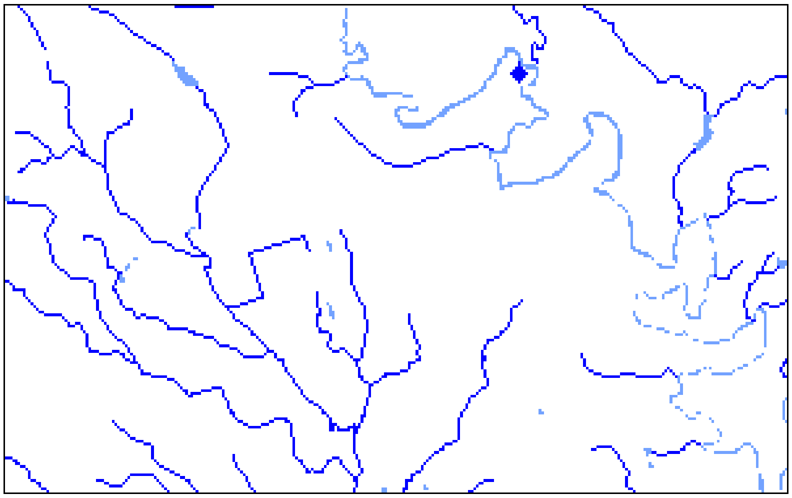
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	68	Street Title
Carto[1]	Decimal	3,0	Cartographic Road Classification
Left_Mun	Character	68	Municipality
Right_Mun	Character	68	Municipality
Left_Maf	Character	70	Municipal Amalgamation
Right_Maf	Character	70	Municipal Amalgamation
Left_Fsa	Character	3	Forward Sortation Area
Right_Fsa	Character	3	Forward Sortation Area
Left_Prv	Character	2	Province (Abbreviation)
Right_Prv	Character	2	Province (Abbreviation)
UniqueId	Decimal	9,0	Unique Identifier of Street segment

Hydrography (hy)



Location

\Topo\ directory

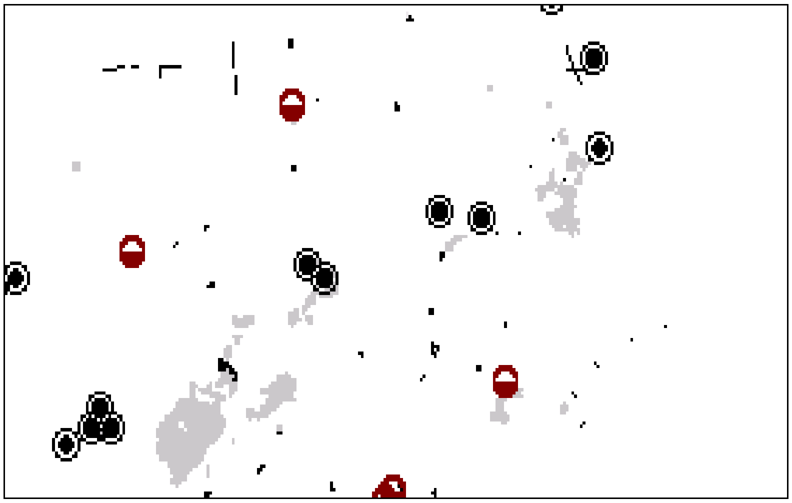
Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
371	DISAPPEARING STREAM: OTHER
372	DISAPPEARING STREAM: SINKHOLE
1450	WATERBODY: INTERMITTENT/SLOUGH
1451	WATERBODY: IN STRING BOG
1452	WATERBODY: OTHER
1454	WATERBODY: FLOODED AREA
1463	WATERCOURSE: UNKNOWN

Industrial and Resource (ir)



Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
34	AUTO WRECKER: GENERIC/UNKNOWN
34	AUTO WRECKER
347	CUT LINE: FIREBREAK
348	CUT LINE: OTHER
417	DUMP: ABANDONED
418	DUMP: OTHER
695	LUMBER YARD
695	LUMBER YARD: GENERIC/UNKNOWN
707	MINE: ABANDONED,N/A
708	MINE: OPERATIONAL,OPEN-PIT
709	MINE: OPERATIONAL,OTHER
788	OIL/GAS FACILITIES
788	GAS AND OIL FACILITIES: GENERIC/UNKNOWN
793	OIL OR GAS FIELD: GENERIC/UNKNOWN
898	PIT
923	QUARRY
1231	STOCKPILE
1242	STOCKYARD
1242	STOCKYARD: GENERIC/UNKNOWN
1435	WASTE: OTHER, LIQUID
1436	WASTE: SETTLING POND,LIQUID

Code	Feature
1437	WASTE: SEWAGE DISPOSAL POND,LIQUID
1438	WASTE: OTHER,SOLID
1656	SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, ABANDONED
1657	SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, OPERATIONAL
1658	SOLIDS DEPOT/DUMP: INDUSTRIAL, WASTE, UNKNOWN
1659	SOLIDS DEPOT/DUMP: INDUSTRIAL, STOCKPILE, UNKNOWN
1690	MINING AREA: UNKNOWN, UNKNOWN, UNKNOWN
1691	MINING AREA: PIT, OPEN PIT, OPERATIONAL
1692	MINING AREA: QUARRY, OPEN PIT, OPERATIONAL
1693	MINING AREA: MINE, OPEN, PIT, OPERATIONAL
1694	MINING AREA: MINE, UNKNOWN, ABANDONED
1697	MINING AREA: MINE, UNDERGROUND, OPERATIONAL

Land Feature Labels (II)



Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Name	Character	100	Feature Name
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
1851	TOPONYM: PLACE
1854	TOPONYM: RELIEF
1855	TOPONYM: TRANSPORT

Canada\USA Roads Linkages (lnk)



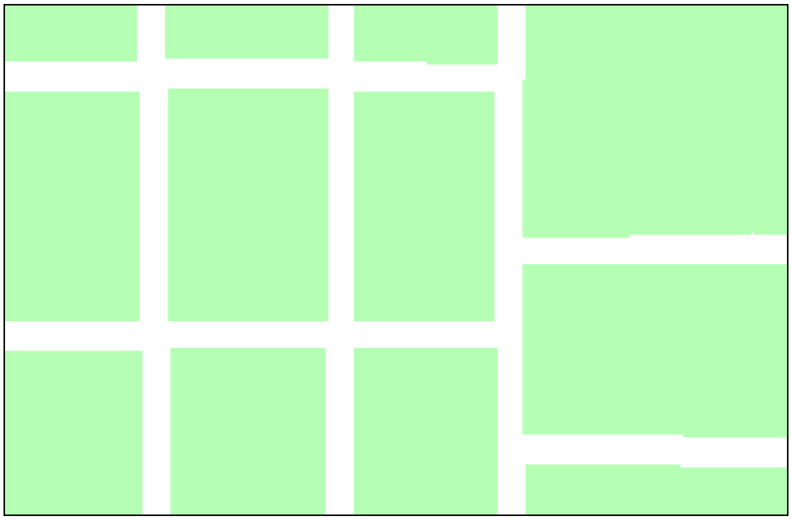
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
RDS_ID	Decimal	9,0	UniqueId of related Roads (rds) segment
CAN_Street	Character	69	Canadian Street at Roads Linkage
Prov	Character	2	Province (Abbreviation)
USA_Street	Character	69	American Street at Roads Linkage
State	Character	2	State (Abbreviation)
Port_Entry	Character	100	Port of Entry Name (where applicable)
Longitude	Decimal	11,6	Longitude of Roads Linkage
Latitude	Decimal	11,6	Latitude of Roads Linkage

Local Road Casements (lrc)



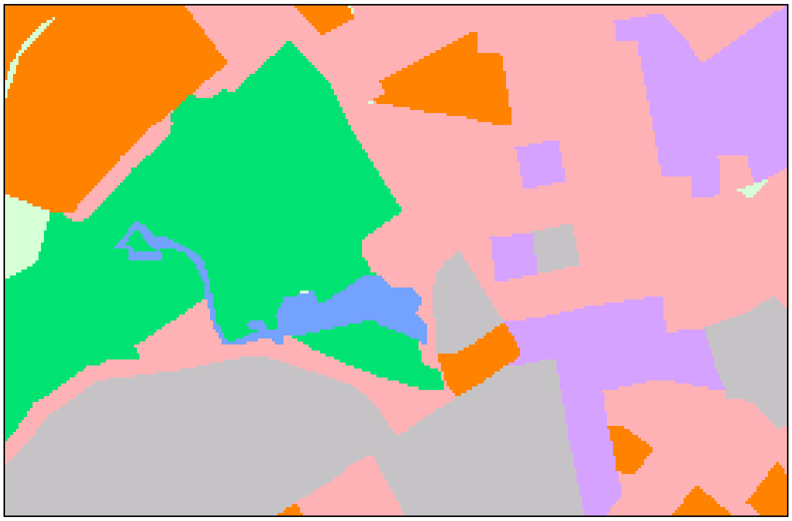
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	64	Street Title
Rds_ Id	Decimal	9,0	UniqueId of related Roads (rds) segment

Land Use (lu)



Location

\Topo\ directory

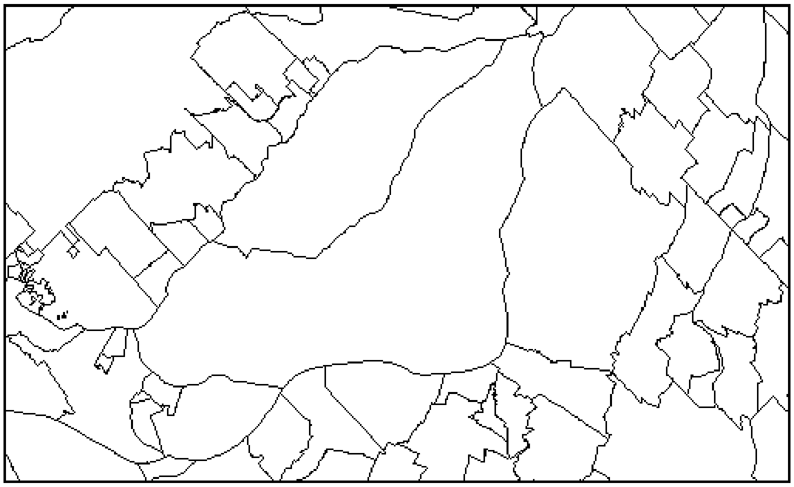
Structure

Field Name	Type	Size	Description
Category	Character	40	Category of Landuse

Content

Landuse Categories: Commercial; Government and Institutional; Open Area; Parks and Recreational; Residential; Resource and Industrial; Waterbody.

Municipality Amalgamation File (maf)



Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Name	Character	70	Municipality name
Prov	Character	2	2 letter province abbreviation from Canada Post
Type	Character	3	Census Subdivision type
Eff_Date[1]	Character	8	Date the municipality change comes into effect. Date appears in YYYYMMDD format.

Content

Municipality Type	Description
C	City
CC	Chartered Community
CM	County (Municipality)
COM	Community
CT	Canton
CU	Cantons Unis
DM	District Municipality
HAM	Hamlet
ID	Improvement District
IGD	Indian Government District
IM	Island Municipality

Code	Feature
LGD	Local Government District

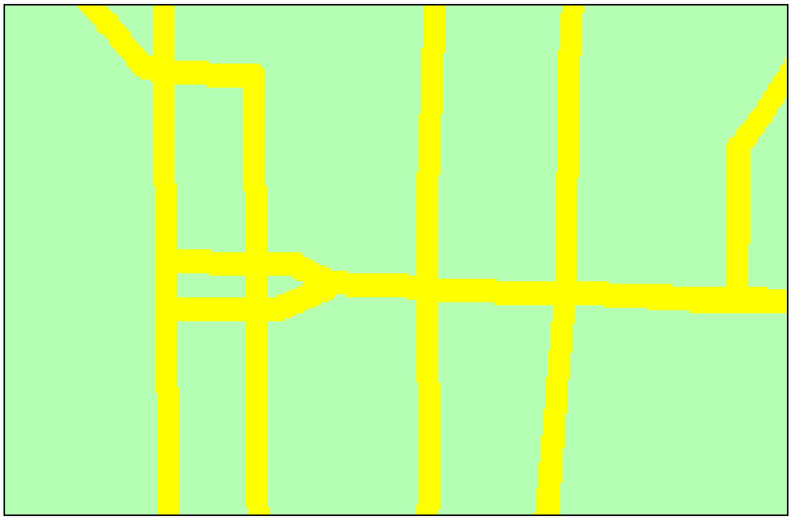
[1] Null records indicate Census Subdivisions that have not changed

LOT	Township and Royalty
M	Municipalité
MD	Municipality District
NH	Northern Hamlet
NL	Nisga'a Land
NV	Northern Village
NVL	Nisga'a Village
P	Paroisse (Municipalité de)
PAR	Parish
R	Indian Reserve / Réserve indienne
RC	Rural Community
RDA	Regional District Electoral Area
RG	Region
RGM	Regional Municipality
RM	Rural Municipality
RV	Resort Village
S-E	Indian Settlement / Établissement indien
SA	Special Area
SCM	Subdivision of County Municipality
SET	Settlement
SM	Specialized Municipality
SUN	Subdivision of Unorganized
SV	Summer Village
T	Town
TI	Terre Inuite
TL	Teslin Land
TP	Township
TR	Terres Réservées
UNO	Unorganized / Non-oraganisé
V	Ville
VC	Village Cri
VK	Village Naskapi
VL	Village
VN	Village Nordique

Please Note: The Municipality Amalgamation File is intended to be used as a supplementary Census Subdivision boundary with CanMap Streetfiles and CanMap RouteLogistics. Amalgamations are defined as a consolidation of two or more entire municipalities. Amalgamations are differentiated from annexations in that an annexation is the process of a given municipality incorporating one or more partial municipalities. The file contains:

- Amalgamations from the 1996 census until Summer 2002
- New Census Subdivisions added in the 2001 census
- Census Subdivision Type revisions from 1996
- Census Subdivision Name revisions from 1996
- Census Subdivision Code (PRCDCSD) revisions from 1996
- Additional amalgamations since Statistics Canada released their 2001 CSD using direct information from provinces and territories

Major Roads Casements (mrc)



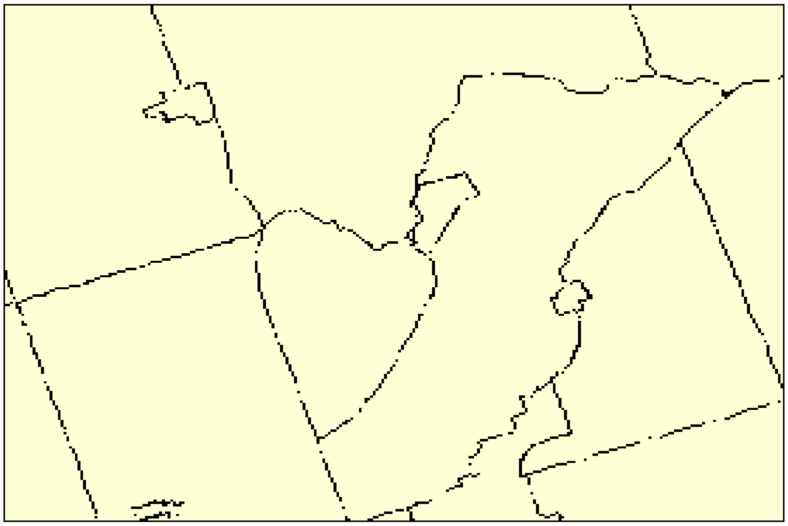
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	64	Street Title
Rds_ Id	Decimal	9,0	UniqueId of related Roads (rds) segment

Municipality Boundaries (mun)



Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Name	Character	68	Municipality name
Prov	Character	2	Province (Abbreviation)
Type	Character	3	Municipality Type
Pop96	Decimal	11,0	1996 Population
Pop_SqKm[1]	Decimal	11,1	Population Density (per square kilometer)
Dwell96	Decimal	11,0	1996 Dwelling count
Shore_Area	Decimal	20,5	Actual land area in sq km (not including any part of the Municipality covered by water). This field can be used during land area analysis[2]

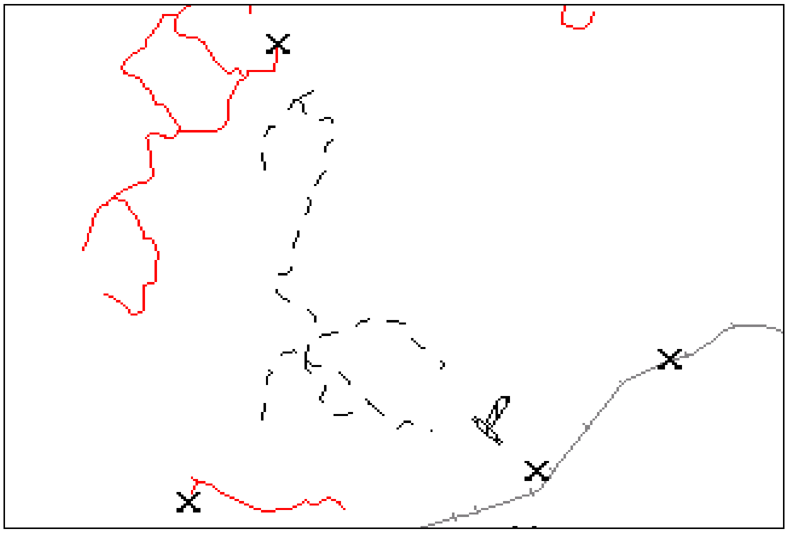
Content

Municipality Type	Description
B	Borough
C	City
CC	Chartered Community
CM	County
COM	Community
CT	Canton
CU	Cantons Unis
DM	District Municipality
HAM	Hamlet

[1] Based on 1996 population figures and land area in square kilometers
[2] All area figures were calculated using a Robinson projection

Code	Feature
ID	Improvement District
IGD	Indian Government District
LGD	Local Government District
LOT	Township and Royalty
M	Municipality
MD	Municipality District
NH	Northern Hamlet
NT	Northern Town
NV	Northern Village
P	Paroisse
PAR	Parish
R	Indian Reserve
RC	Rural Community
RGM	Regional Municipality
RM	Rural Municipality
RV	Resort Village
S-E	Indian Settlement
SA	Special Area
SCM	Subdivision of County Municipality
SET	Settlement
SM	Specialized Municipality
SRD	Subdivision of Regional District
SUN	Subdivision of Unorganized
SV	Summer Village
T	Town
TI	Terre Inuite
TP	Township
TR	Terres Réservées
UNO	Unorganized
V	Ville
VC	Village Cri
VK	Village Naskapi
VL	Village
VN	Village Nordique

Other Transportation (ot)



Location

\Topo\ directory

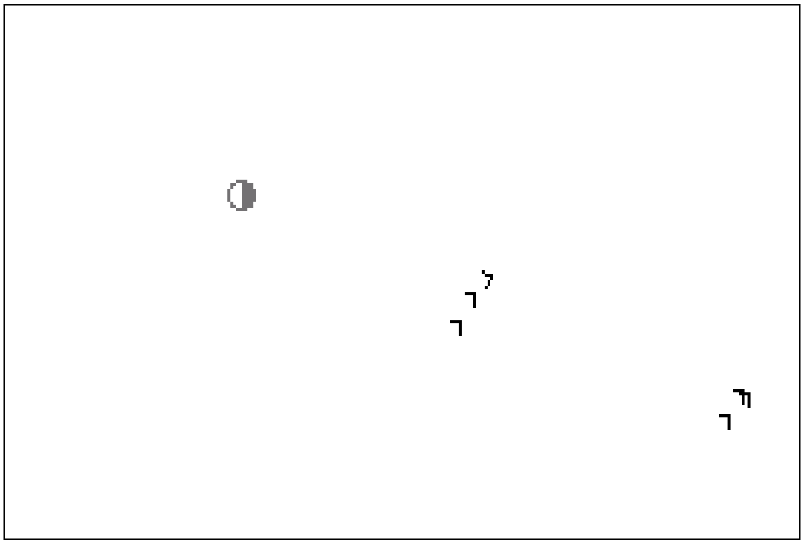
Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type
Name	Character	100	Feature Name

Content

Code	Feature
46	BARRIER/GATE: OTHER
335	CUT: GENERIC/UNKNOWN
1306	TRAIL: OTHER
1307	TRAIL: PORTAGE
1387	TURNTABLE: GENERIC/UNKNOWN

Physiography (ph)



Location

\Topo\ directory

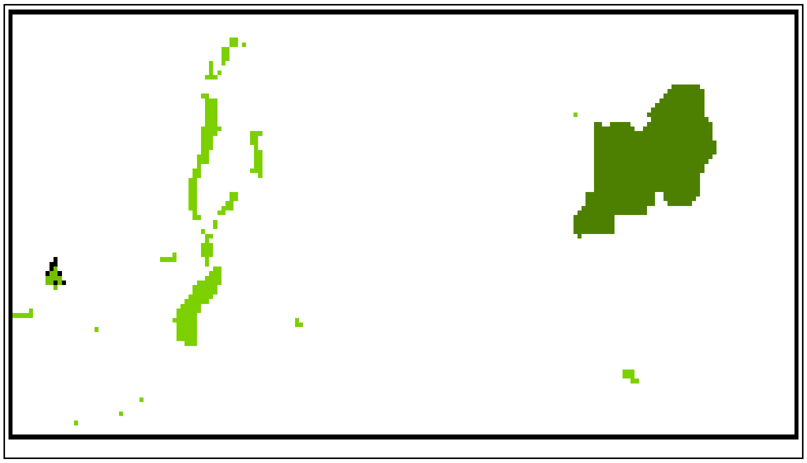
Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
239	CAVE ENTRANCE
239	CAVE ENTRANCE: GENERIC/UNKNOWN
394	DRY RIVER BED
394	DRY RIVER BED: GENERIC/UNKNOWN
451	ESKER
451	ESKER: GENERIC/UNKNOWN
574	FORESHORE FLATS
731	MORAINE: GENERIC/UNKNOWN
1083	SAND: OTHER
1084	SAND: UNDERWATER

National and Provincial Parks (pk)



Location

\Topo\ directory

The National and Provincial Parks file is derived from the CanMap® Parks product.

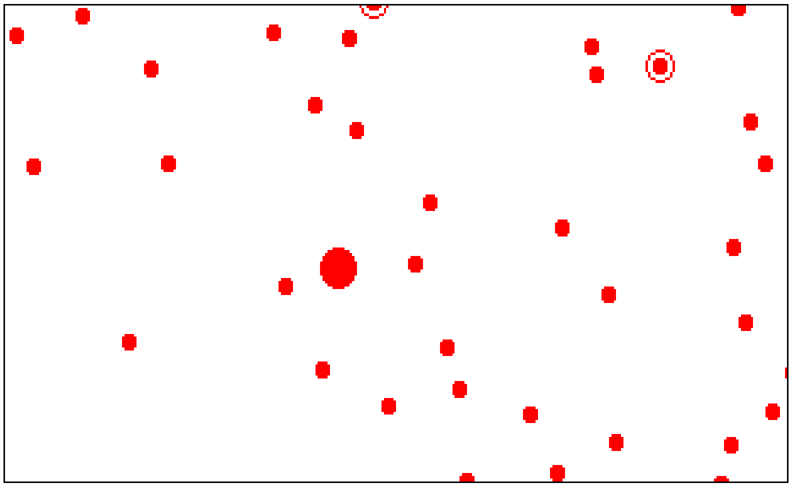
Structure

Field Name	Type	Size	Description
PARK	Char	68	National or Provincial Park Name
PARK_TYPE	Char	40	Defines park as being National, Provincial or Territorial
PARK_CLASS	Char	40	Park designation – Wildlife, Recreation, Historical, Waterway, Natural Environment, Heritage, etc.
PROV	Char	2	Province (Abbreviation)

Notes: Duplicate naming exists within the Canadian Parks system, below is a full listing of duplicates.

Park Name	Prov	Prov	Description
Cypress Hills Provincial Park	AB	SK	Inter-Provincial
Duck Mountain Provincial Park	SK	MB	Common Name
Long Lake Provincial Park	NS	AB	Common Name
Long Point Provincial Park	NS	ON	Common Name
Mara Provincial Park	ON	BC	Common Name
Sandbanks Provincial Park	ON	NL	Common Name
Silver Lake Provincial Park	ON	BC	Common Name
Ten Mile Lake Provincial Park	NS	BC	Common Name
Tuktut Nogait National Park	NU	NT	Inter-Provincial
White Lake Provincial Park	ON	BC	Common Name
Wood Buffalo National Park	AB	NT	Inter-Provincial

Populated Placenames (ppn)



Location

\POI\ directory

Structure

Field Name	Type	Size	Description
Name	Character	68	Placename
Prov	Character	2	Province (Abbreviation)
Longitude	Decimal	11,6	Longitude of Populated Placename
Latitude	Decimal	11,6	Latitude of Populated Placename
PPN_Code	Decimal	3,0	Populated Placename Code
Prec_Code[1]	Decimal	2,0	Code indicating the positional accuracy or precision of the geocoded feature
Mjr_City	Logical	-	Identifies cities with populations > 100,000
Captial	Logical	-	Identifies provincial capital cities and nation capital
PRCDCSD	Character	8	Census Subdivision (CSD) code in which the placename is located
CSD_Name	Character	68	Census Subdivision (CSD) name in which the placename is located
CSD_Pop96	Decimal	11,0	Census Subdivision (CSD) population (1996) in which the placename is located

Content

PPN_Code	Populated Placename
100	Major City
1	City
2	Town
3	Community (rural communities, hamlets, settlements)
4	Urban or Suburban Community

Provincial Boundaries (prv)



Location

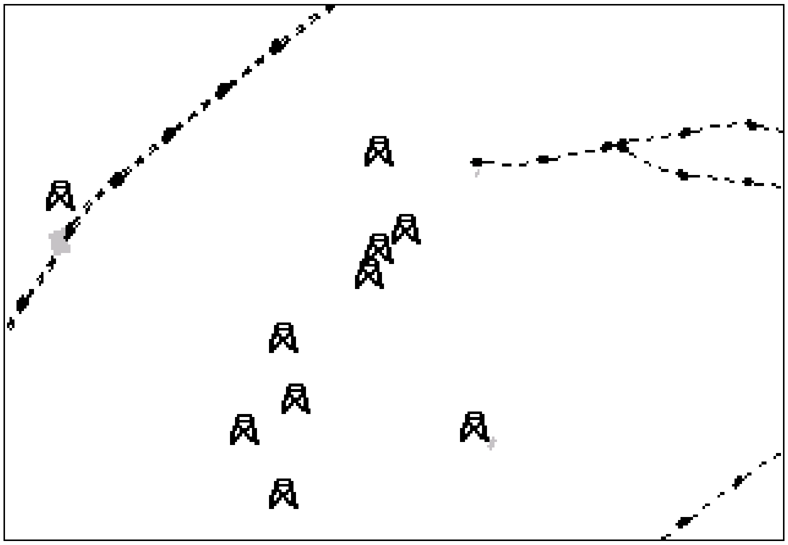
\Canada\ directory

Structure

Field Name	Type	Size	Description
Name	Character	68	Province name
Prov	Character	2	Province (Abbreviation)
Pop96	Decimal	11,0	1996 Population
Pop_SqKm[1]	Decimal	11,1	Population Density (per square kilometer)
Dwell96	Decimal	11,0	1996 Dwelling count
Shore_Area	Decimal	20,5	Actual land area in sq km (not including any part of the Province covered by water). This field can be used during land area analysis[2]

[1] Based on 1996 population figures and land area in square kilometers
[2] All area figures were calculated using a Robinson projection

Pipelines and Transmission (pt)



Location

\Topo\ directory

Structure

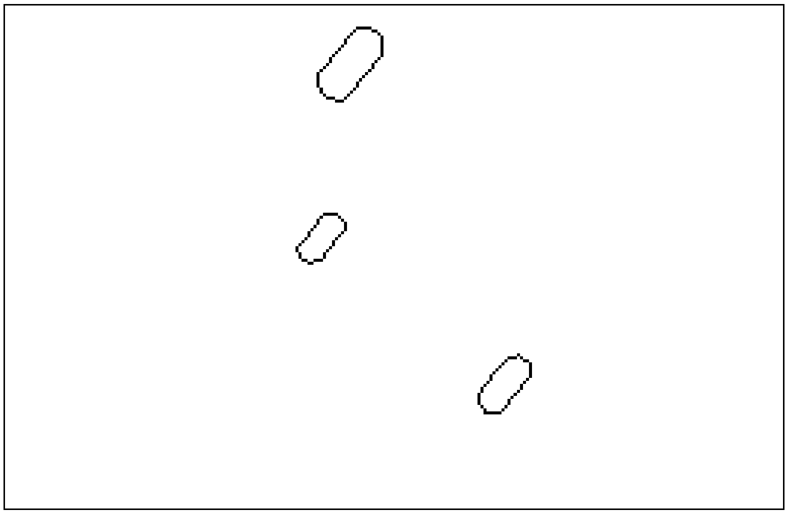
Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
881	PIPELINE: NATURAL GAS, ABOVEGROUND
881	PIPELINE: NATURAL GAS ,ABOVEGROUND
882	PIPELINE: NATURAL GAS,UNDERGROUND
882	PIPELINE: NATURAL GAS, UNDERGROUND
883	PIPELINE: OIL,ABOVEGROUND
883	PIPELINE: OIL ABOVEGROUND
884	PIPELINE: OIL UNDERGROUND
884	PIPELINE: OIL,UNDERGROUND
885	PIPELINE: SEWAGE/WASTE, ABOVEGROUND
885	PIPELINE: SEWAGE/WASTE,ABOVEGROUND
886	PIPELINE: UNKNOWN,ABOVEGROUND
886	PIPELINE: UNKNOWN, ABOVEGROUND
887	PIPELINE: UNKNOWN,UNDERGROUND
887	PIPELINE: UNKNOWN, UNDERGROUND
890	PIPELINE: MULTIUSE, ABOVEGROUND

Code	Feature
891	PIPELINE: MULTIUSE, UNDERGROUND
1318	TRANSFORMER STATION (ELECTRIC)
1318	TRANSFORMER STATION: GENERIC/UNKNOWN
1330	TRANSMISSION LINE: POWER,OTHER
1330	TRANSMISSION LINE: POWER, OTHER
1331	TRANSMISSION LINE: POWER, SUBMARINE
1331	TRANSMISSION LINE: POWER,SUBMARINE
1332	TRANSMISSION LINE: TELEPHONE,OTHER
1332	TRANSMISSION LINE: TELEPHONE, OTHER
1398	VALVE: GENERIC/UNKNOWN
1398	VALVE

Recreation and Amusement (ra)



Location

\Topo\ directory

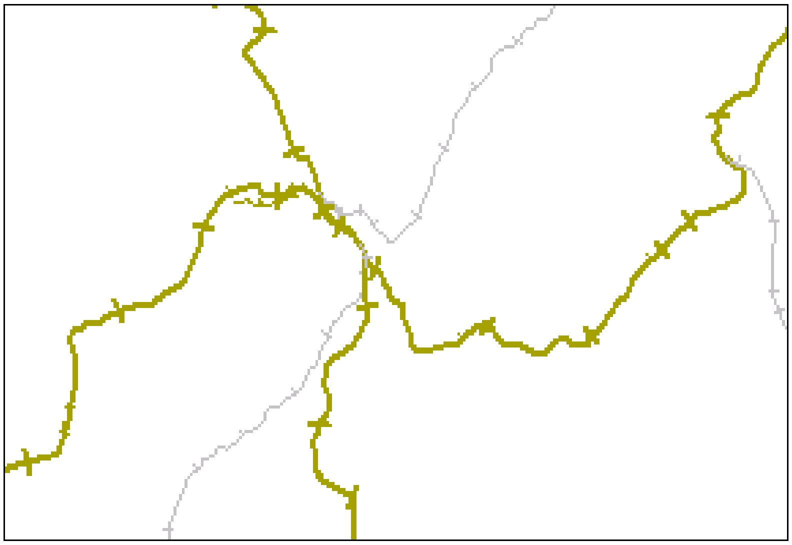
Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
607	GOLF DRIVING RANGE
1198	SPORTS/RACE TRACK: OTHER

Rail (rl)



Location
\Topo\ directory

The Rail file is derived from the CanMap® Rail product.

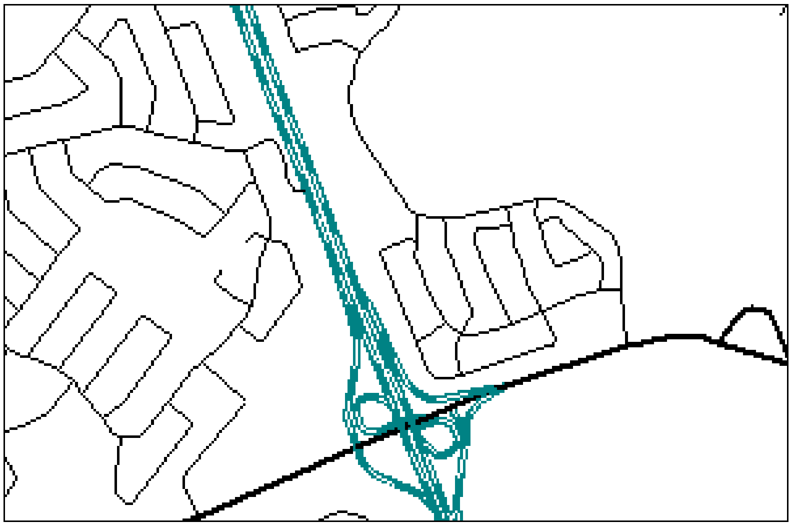
Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Ntdb Classification Code
Feature	Character	76	Feature Type

Content

Code	Feature
935	RAILWAY: ABANDONED
962	RAILWAY: OPERATIONAL
963	RAILWAY: OPERATIONAL, SIDETRACK

Roads (rds)



Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	69	Street Title (comprised of PreType, PreDir, StreetName, SufType, SufDir)
FromLeft	Decimal	6,0	Address on the Left side at the From end of the street segment
ToLeft	Decimal	6,0	Address on the Left side at the To end of the street segment
FromRight	Decimal	6,0	Address on the Right side at the From end of the street segment
ToRight	Decimal	6,0	Address on the Right side at the To end of the street segment
PreDir[1]	Character	2	Prefix Direction component of the Street Title (e.g. **W** 5 St)
PreType	Character	10	Prefix StreetType component of the Street Title (e.g. **Rue** Jean)
StreetName	Character	45	StreetName component of the Street Title (e.g. **John** St E)
Suftype	Character	10	Suffix StreetType component of the Street Title (e.g. John **St** E)
SufDir	Character	2	Suffix Direction component of the Street Title (e.g. John St **E**)
Carto	Decimal	3,0	Cartographic Road Classification
Left_Mun	Character	68	Municipality
Right_Mun	Character	68	Municipality
Left_Maf	Character	70	Municipal Amalgamation
Right_Maf	Character	70	Municipal Amalgamation
Left_Fsa	Character	3	Forward Sortation Area
Right_Fsa	Character	3	Forward Sortation Area
Left_Prv	Character	2	Province (Abbreviation)
Right_Prv	Character	2	Province (Abbreviation)
UniqueId	Decimal	9,0	Unique Identifier of Street segment

Note: Address fields contain only zeros in Unaddressed CanMap Streetfiles .
Municipality information is derived from Statistics Canada's 1996 CSD boundaries.

[1] For details please refer to the Appendix B: CanMap Street Types and Directions

Roads Look Up Table (rds_lut)

Location

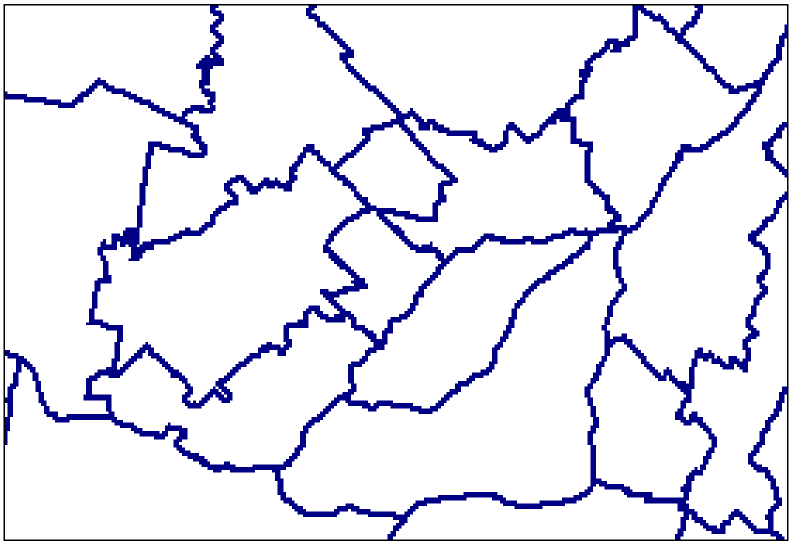
\Streets\ directory

Structure

Field Name	Type	Size	Description
Rds_Id	Decimal	9,0	UniqueId of related Roads (rds) segment
Alias_Name	Character	69	Alternate Street Name
FormerName[1]	Character	69	Former Provincial Hwy Name
Hwy_Num	Character	20	Highway Number(s) (e.g. Highway 404)
Hwy_NumNam	Character	69	Road Numeric Name (e.g. Regional Rd 4)
Hwy_Name	Character	69	Highway Name Non-Numeric (e.g. Don Valley Pky)
Rd_Num	Character	20	Road Number (e.g. 4)
Rd_NumNam	Character	69	Road Numeric Name (e.g. Regional Rd 4)
Rd_Name	Character	69	Road Name Non-Numeric (e.g. Taunton Rd W)
AlaskaHwy	Logical	-	Alaskan Highway flag
CaribooHwy	Logical	-	Cariboo Highway flag
CrwsnstHwy	Logical	-	Crowsnest Highway flag
DempstrHwy	Logical	-	Dempster Highway flag
JohnHrtHwy	Logical	-	John Hart Highway flag
KlondkeHwy	Logical	-	Klondike Highway flag
McknzieHwy	Logical	-	Mackenzie Highway flag
TrnsCdaHwy	Logical	-	TransCanada Highway Flag
YelowHdHwy	Logical	-	Yellow Head Highway Flag
Toll_Rd	Logical	-	Toll Road Flag

[1] Applicable only in Ontario

Regional Municipality Boundaries (rmn)



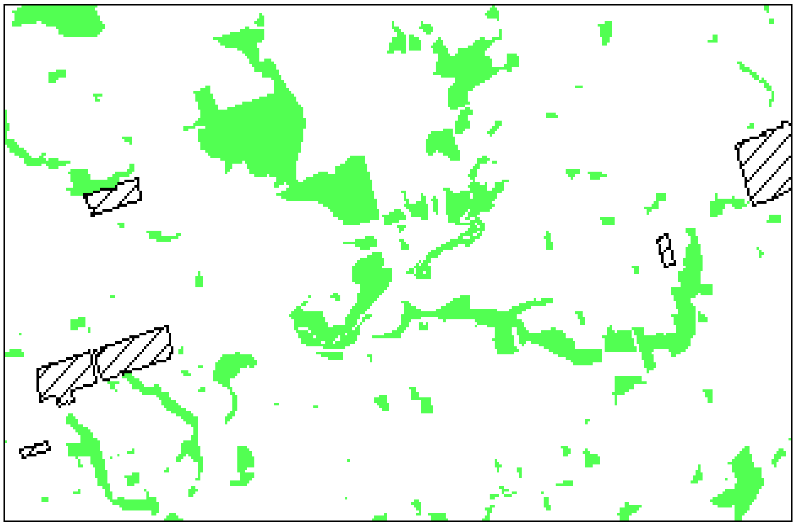
Location

\Canada\ directory

Structure

Field Name	Type	Size	Description
Name	Character	68	Regional Municipality name
Prov	Character	2	Province (Abbreviation)
Pop96	Decimal	11,0	1996 Population
Pop_SqKm[1]	Decimal	11,1	Population Density (per square kilometer)
Dwell96	Decimal	11,0	1996 Dwelling count
Shore_Area	Decimal	20,5	Actual land area in sq km (not including any part of the Regional Municipality covered by water). This field can be used during land area analysis[2]

Recreation and Amusement – Regions (rp)



Location

\Topo\ directory

Structure

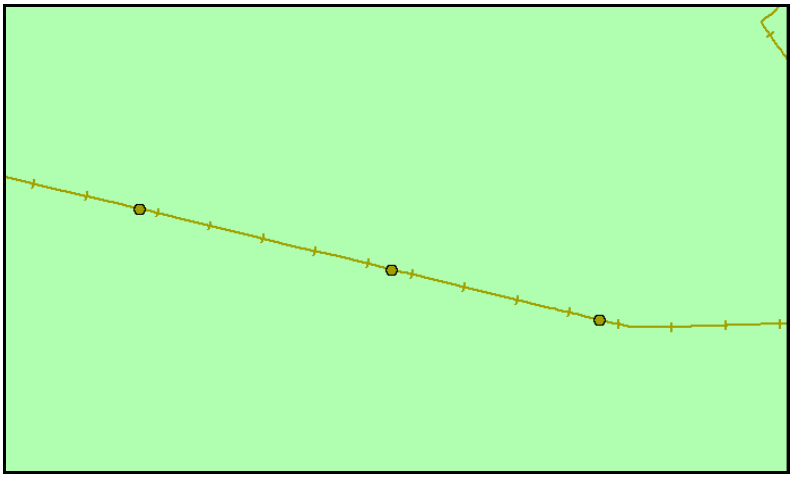
Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Contents

Code	Feature
23	AMUSEMENT PARK: GENERIC/UNKNOWN
23	AMUSEMENT PARK
69	BOTANICAL GARDEN: GENERIC/UNKNOWN
69	BOTANICAL GARDEN
217	CAMPGROUND
217	CAMPGROUND: GENERIC/UNKNOWN
250	CEMETERY: GENERIC/UNKNOWN
250	CEMETERY
383	DRIVE-IN THEATRE: GENERIC/UNKNOWN
383	DRIVE-IN THEATRE
463	EXHIBITION GROUND: OTHER
463	EXHIBITION GROUND/FAIRGROUND: EXHIBITION GROUND
464	EXHIBITION GROUND/FAIRGROUND: FAIRGROUND
464	EXHIBITION GROUND: FAIRGROUND
596	GOLF COURSE: GENERIC/UNKNOWN
596	GOLF COURSE
607	GOLF DRIVING RANGE: GENERIC/UNKNOWN
607	GOLF DRIVING RANGE
684	LOOKOUT: GENERIC/UNKNOWN

Code	Feature
684	LOOKOUT
823	PARK/SPORTS FIELD: GENERIC/UNKNOWN
823	PARK/SPORTS FIELD
858	PICNIC SITE
858	PICNIC SITE: GENERIC/UNKNOWN
1197	SPORTS TRACK/RACE TRACK: DRAG STRIP
1197	SPORTS/RACE TRACK: DRAG STRIP
1264	SWIMMING POOL (OUTDOOR)
1525	ZOO: GENERIC/UNKNOWN
1672	LIQUIDS DEPOT/DUMP: WATER, SWIMMING POOL

Rail Stops (rs)



Location

\Topo\ directory

The Rail Stops file is derived from the CanMap® Rail product.

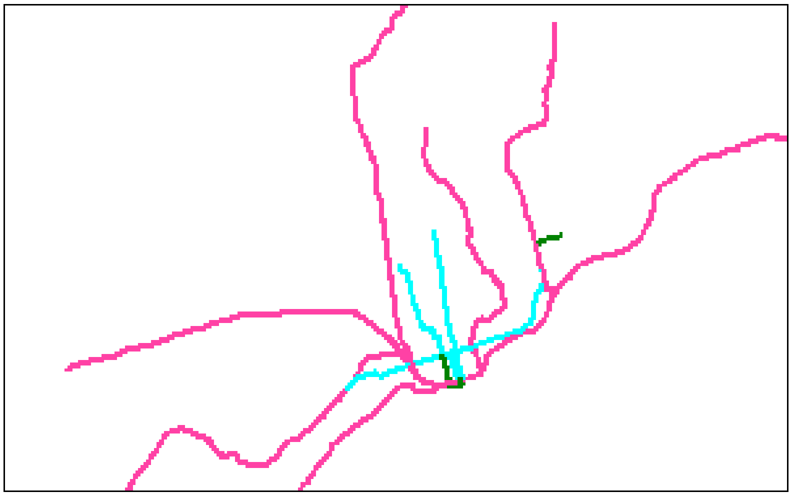
Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	NTDB Classification Code
Feature	Character	76	Feature Type

Content

Code	Feature
155	BUILDING: RAILWAY STATION

Rail Transit – Lines (rtl)



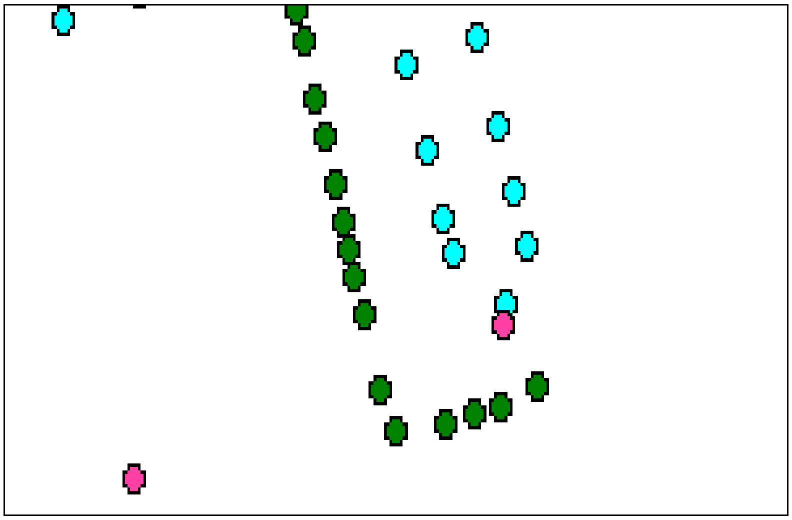
Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Route	Character	100	Route Name
System	Character	100	Transit System Name
Type	Character	20	Type (Mode) of Transit

Rail Transit - Points (rtp)



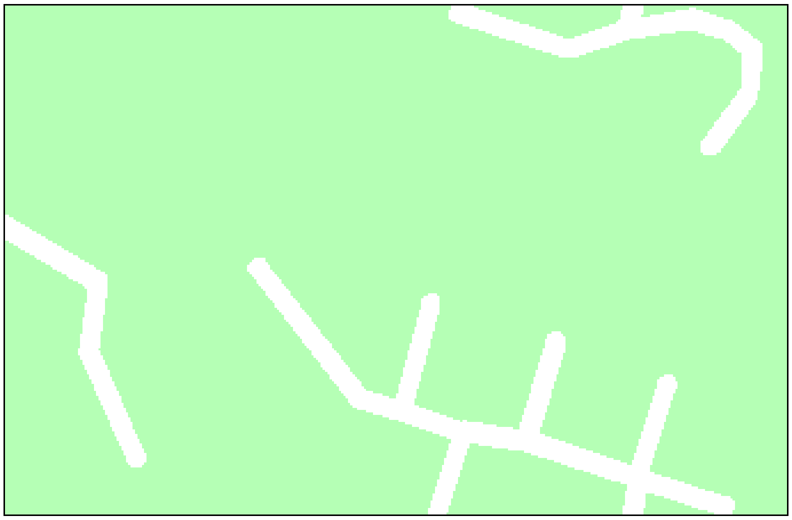
Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Stop	Character	100	Stop Name
Route	Character	100	Route Name
System	Character	100	Transit System Name
Type	Character	20	Type (Mode) of Transit

Trail Casements (tlc)



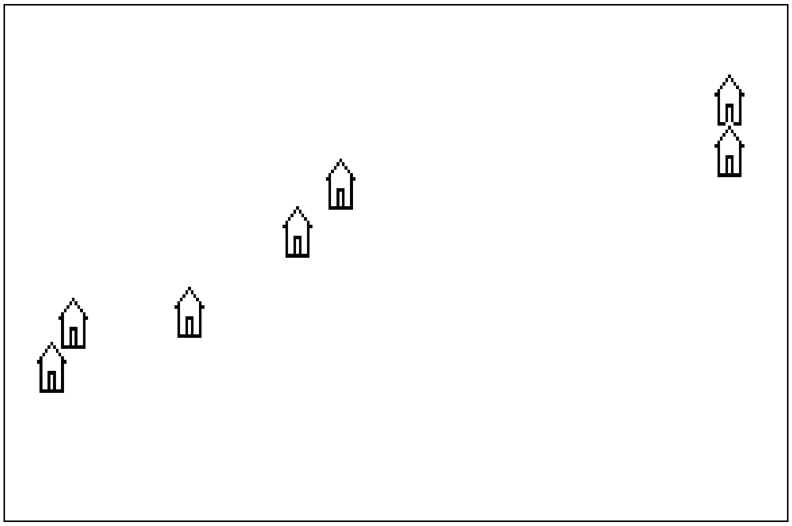
Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Street	Character	64	Street Title
Rds_Id	Decimal	9,0	UniqueId of related Roads (rds) segment

Toll Booths (tol)



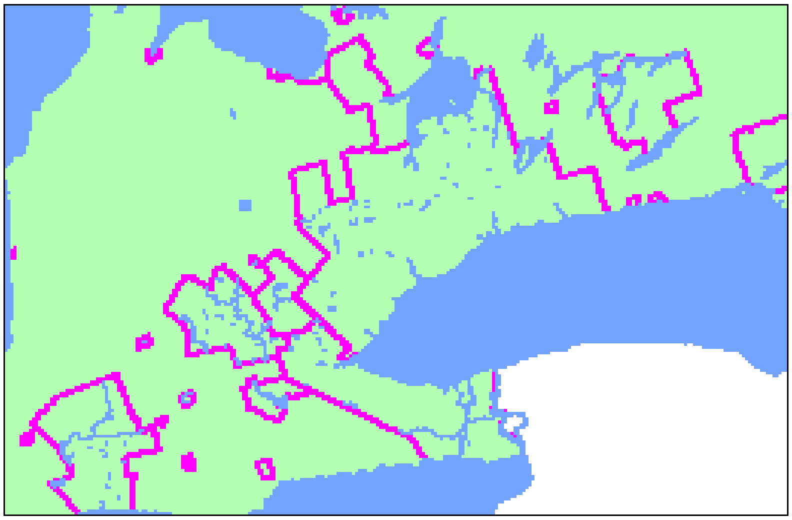
Location

\POI\ directory

Structure

Field Name	Type	Size	Description
Name	Character	125	Toll Booth name
Location	Character	100	Toll Booth location
City	Character	68	City (or closest Municipality)
Prov	Character	2	Province (Abbreviation)
Direction	Character	2	Direction of Highway at Car Pool Lot Location
Prec_Code[1]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
POI_ID	Character	15	Unique ID

Topographic Coverage Areas (top)



Location

\Canada\ directory

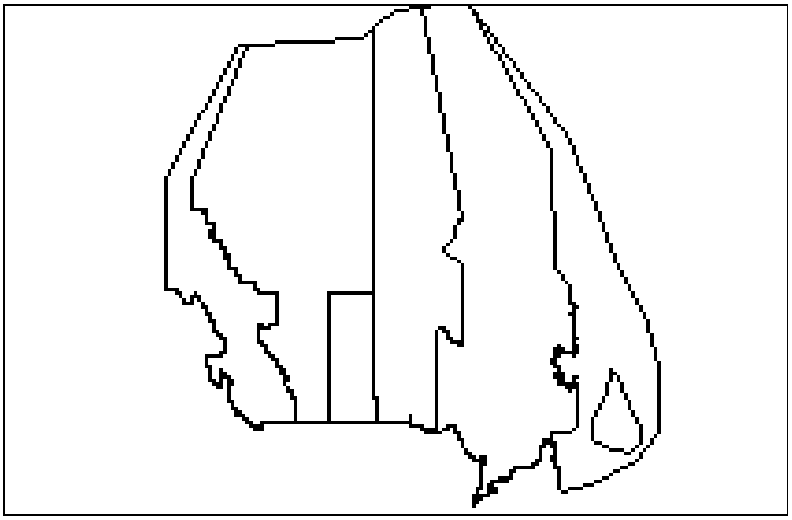
Structure

Field Name	Type	Size	Description
Full_Name	Character	68	Topographic Coverage Area name
Prov	Character	2	Province Abbreviation
Name	Character	5	Topographic Coverage Area Abbreviation

Content

Topographic Coverage Areas outline 746 urban areas where topographic layers are provided.

Time Zones – Standard Time (tzs) / Daylight Savings Time (tzv)



Location

\Canada\ directory

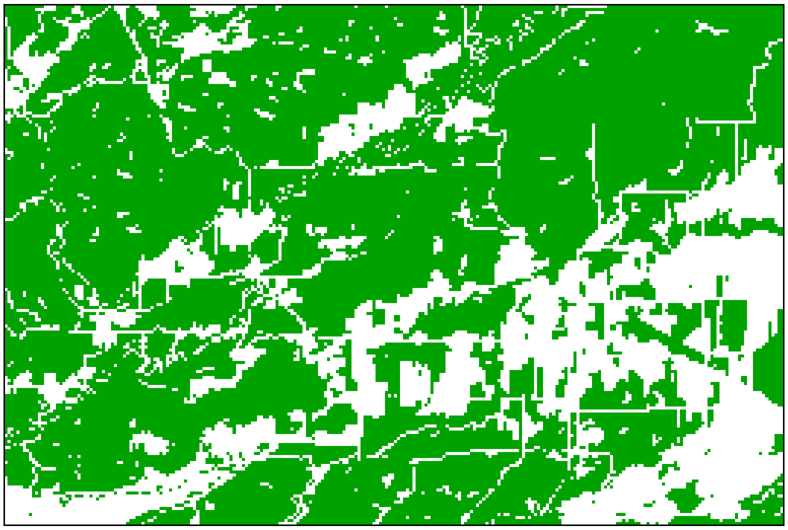
Structure

Field Name	Type	Size	Description
Time_Zone	Character	60	Name of Time Zone
DevFromGMT	Decimal	5,1	The difference in hours from Greenwich Mean Time

Content

Time Zone Boundaries are useful in Call Center applications. These files represent time zones throughout Canada for both Standard Time and Daylight Savings Time. The boundaries match to the CanMap Streetfiles regional municipalities.

Vegetation (ve)



Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
834	PEAT CUTTING
834	PEAT CUTTING: GENERIC/UNKNOWN
1343	TREE NURSERY
1410	VEGETATION: ORCHARD
1411	VEGETATION: VINEYARD/HOPFIELD
1412	VEGETATION: WOODED AREA
1413	VEGETATION: TREE NURSERY

National Water (wat)



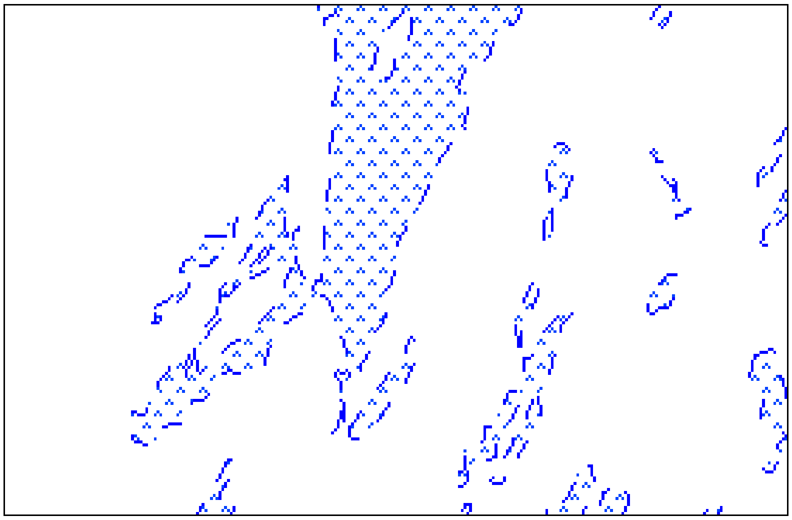
Location

\Canada\ directory

Structure

Field Name	Type	Size	Description
Name	Character	40	Lake/River Name

Wetlands (we)



Location

\Topo\ directory

Structure

Field Name	Type	Size	Description
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
1253	STRING BOG
1253	STRING BOG: GENERIC/UNKNOWN
1492	WETLAND
1492	WETLAND: GENERIC/UNKNOWN

Water Feature Labels (wl)



Location

\Topo\ directory

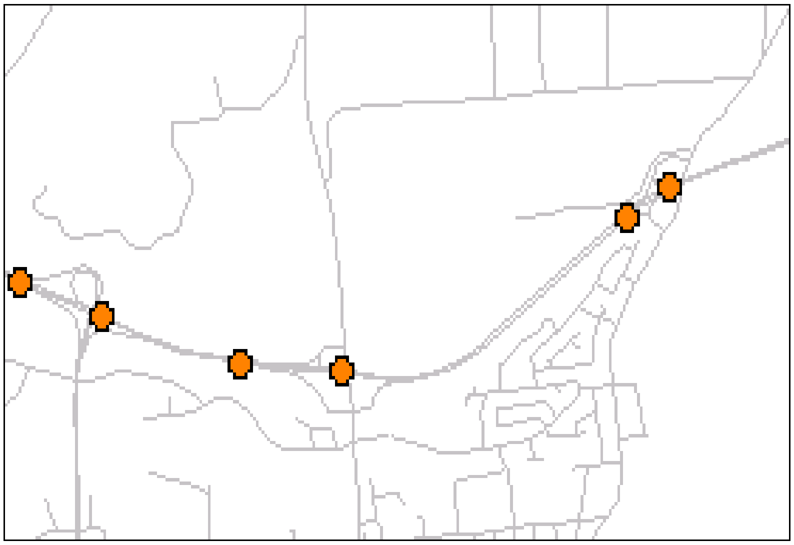
Structure

Field Name	Type	Size	Description
Name	Character	100	Feature Name
Code	Decimal	11,0	Feature Code
Feature	Character	76	Feature Type

Content

Code	Feature
1852	TOPONYM: HYDROGRAPHY
1853	TOPONYM: SHORELINE

Highway Exits (xit)[1]



Location

\Streets\ directory

Structure

Field Name	Type	Size	Description
Exit_Num	Character	30	Highway Exit Number
Exit_Dir	Character	2	Direction of Exit ramp

Content

- The Exit_Num field contains commas as the delimiter where multiple exit numbers exist, for example "356, 357"
- The Roads (rds) Street field contains the ampersand sign as a delimiter where multiple exit numbers exist, for example "HIGHWAY 401 (EXIT 356 & 357)"
- Direction, as listed in the Exit_Dir field, is associated with the exit number only

[1] Highway exit numbers are only available for the following provinces: BC, NB, NS, ON, QC

Appendix E: Suggested CanMap® Suite of Products Layering

Packaged with the CanMap suite of products, are custom viewing files: MapInfo Workspaces (*.wor); ArcView and ArcGIS Project Files (*.apr and *.mxd); or MapGuide Map Window Files (*.mwf). Located in the general content directories, these viewing files have been provided to maximize the ease of use of the CanMap suite of products by opening and intelligently layering various data layers and displaying them based on appropriate viewing scales.

If you wish to view a CanMap product without the aid of the provided viewing files or the format purchased does not come with them, DMTI Spatial™ recommends using the following layering system to view your CanMap product:

Layering in MapInfo

Layer	Description
xit	Highway Exits
ll	Land Feature Labels
wl	Water Feature Labels
cpl	Car Pool Lots
edu	Education
glf	Golf Courses
hcr	Health Care
ppn	Populated Placenames
tol	Toll Booths
btp[1]	Bus Transit - Points
rtp	Rail Transit - Points
bt	Bus Transit - Lines
rtl	Rail Transit - Lines
ra	Recreation and Amusement
pt	Pipelines and Transmission
rs	Rail Stops
bp	Building Points
ot	Other Transportation
bf	Building Footprints
exc[2]	Expressways Casements
hpc	Primary Highways Casements
hsc	Secondary Highways Casements
mrc	Major Roads Casements
lrc	Local Roads Casements
tlc	Trails Casements
rds	Roads
hrd	Major Roads and Highways
hwy	Highways
rl	Rail
hs	Hydrographic Structures
ta	Transportation Related
ir	Industrial and Resource
ph	Physiography
we	Wetlands
hy	Hydrography

[1] Transit Lines and points available in selected major urban centers only
[2] Casements not available in ArcInfo Interchange Format (*.e00)

Layer	Description
pk	National and Provincial Parks
rp	Recreation and Amusement - Regions
ve	Vegetation
lu	Land Use
wat	National Water[1]
top	Topographic Coverage Areas
rmn	Regional Municipality Boundaries
mun	Municipality Boundaries
prv	Provincial Boundaries

ArcView, ArcGIS Layering

Layer	Description
llp	Land Feature Labels
wlp	Water Feature Labels
xit	Highway Exits
cpl	Car Pool Lots
edu	Education
glf	Golf Courses
hcr	Health Care
ppn	Populated Placenames
tol	Toll Booths
btp	Bus Transit – Points
rtp	Rail Transit – Points
pkp	National and Provincial Parks - Points
rap	Recreation and Amusement – Points
ptp	Pipelines and Transmission – Points
rsp	Rail Stops - Points
otp	Other Transportation – Points
bpp	Building Points
hsp	Hydrographic Structures – Points
tap	Transportation Related – Points
irp	Industrial and Resource – Points
php	Physiography – Points
hyp	Hydrography – Points
btl	Bus Transit – Lines
rtl	Rail Transit – Lines
ral	Recreation and Amusement – Lines
ptl	Pipelines and Transmission - Lines
otl	Other Transportation – Lines
rll	Rail - Lines

[1] Refer to Appendix H – Shorelined v. Unshorlined Boundary for proper layering of boundaries and National water

Layer	Description
bfr	Building Footprints
exc	Expressways Casements
hpc	Primary Highways Casements
hsc	Secondary Highways Casements
mrc	Major Roads Casements
lrc	Local Roads Casements
tlc	Trails Casements
rds	Roads
hrd	Major Roads and Highways
hwy	Highways
hsl	Hydrographic Structures – Lines
irl	Industrial and Resource – Lines
phl	Physiography – Lines
hyl	Hydrography – Lines
ptr	Pipelines and Transmission – Regions
otr	Other Transportation – Regions
hsr	Hydrographic Structures - Regions
tar	Transportation Related – Regions
irr	Industrial and Resource – Regions
phr	Physiography – Regions
wer	Wetlands
hyr	Hydrography – Regions
pkr	National and Provincial Parks - Regions
rpr	Recreation and Amusement – Regions
ver	Vegetation
lur	Land Use
wat	Water
top	Topographic Coverage Areas
rmn	Regional Municipality Boundaries
mun	Municipality Boundaries
prv	Provincial Boundaries

Other CanMap layers

Layer	Description
acb	Area Code Boundaries
lnk	Canada\USA Roads Linkages
rds_lut	Roads Lookup Table
tzs	Time Zones (Standard Time)
tzv	Time Zones (Daylight Savings Time)
CSD	Boundaries and Data

Appendix F: Geographical Placement of Data

Precision Codes

Code indicating the positional accuracy or precision of the positioned or geocoded feature.

Prec_Code	Description
1	Centroid of 1:50 000 NTDB feature or placed via Orthorectified photo
2	Block-face representative point from CanMap streets – High precision
3	Block-face representative point from CanMap streets – Lower precision
4	Postal Code - Block-face representative point
5	Postal Code - EA Centroid / FSA Centroid
6	Municipal Centroid
7	Canadian Geographical Names Database (CGNDB)[1]

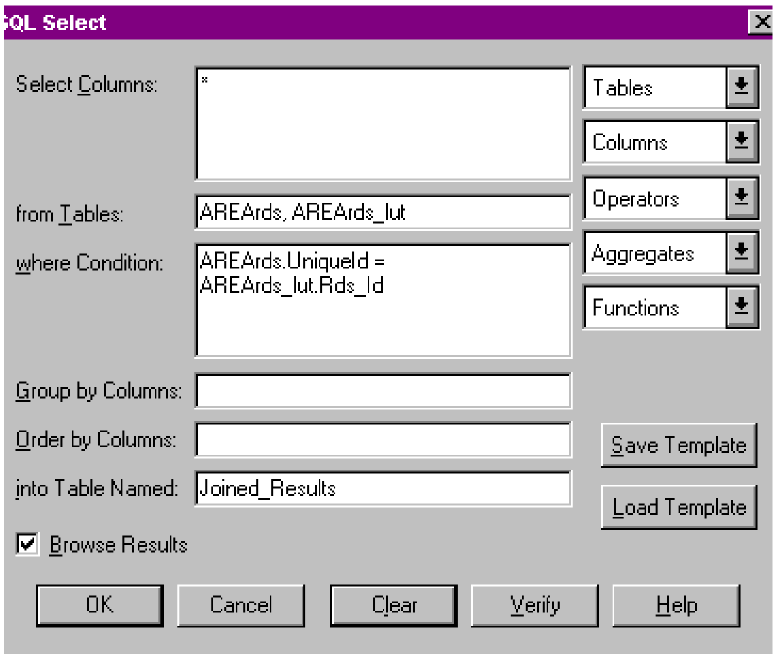
[1] May have been enhanced by removing points from water bodies

Appendix G: Joining rds and rds_lut data files

To view the *AREA*rds data linked to the *AREA*rds_lut data the user must complete a manual join.

In MapInfo Format:

1. Open both the *AREA*rds data file and the *AREA*rds_lut data file
2. Through the 'Query' menu select 'SQL Select…'
3. Complete the following query: Select * from *AREA*rds, *AREA*rds_lut where *AREA*rds.UniqueId = *AREA*rds_lut.Rds_Id (as shown below)



Now, when you scroll through the results of the query you will notice that the two data files have been joined. Additional data tables can be joined, so that many table attributes can be shown at one time.

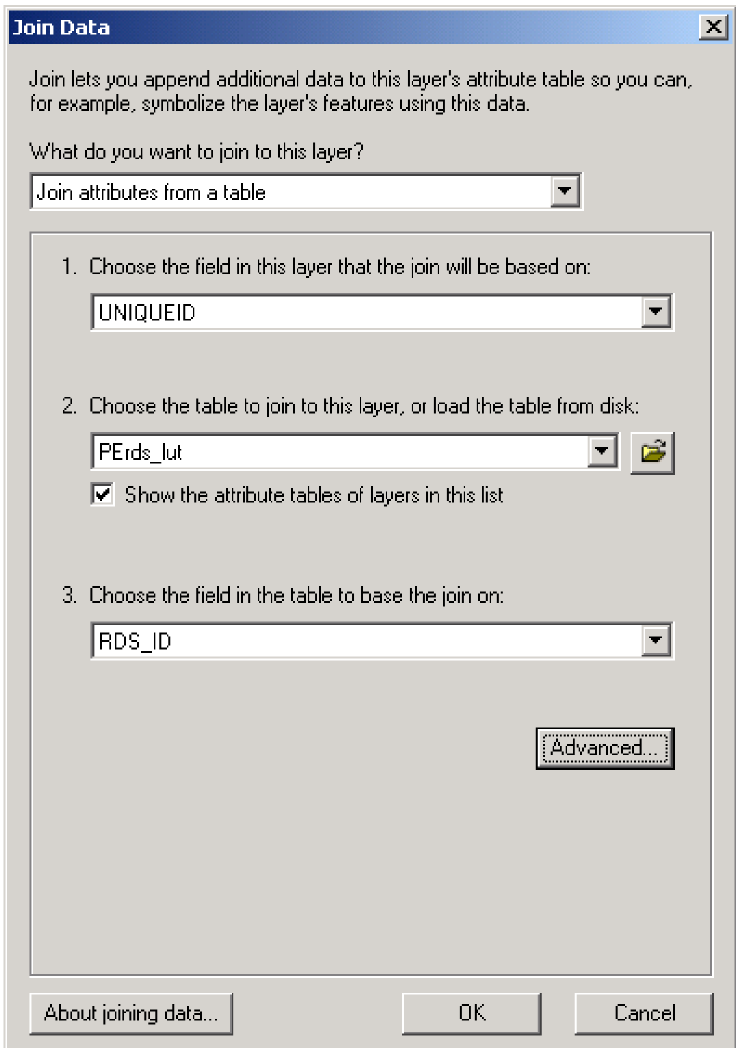
In ArcView Format:

1. With the project file open, click on the Window menu and select the project (*AREA*rds.apr) to display the project window.
2. With the project window now displayed select the 'Tables' icon. Click on the 'Add' button, locate and open the *AREA*rds_lut data table you wish to join.
3. With the *AREA*rds_lut table displayed click on the field (Rds_id) that will be used to join the *AREA*rds_lut table to the *AREA*rds data table. Now return to the View with the *AREA*rds file.
4. Click on the *AREA*rds theme in the legend to make it active.
5. Click on the 'Open Theme Table' button to display the *AREA*rds attribute table (or choose Theme from the Table menu).
6. Click on the field that will be used to join the *AREA*rds data table (Uniqueid).
7. Finally, click on the Join button (or choose Join from the Table menu)

Now, when you scroll along the *AREA*rds attribute table you will notice the *AREA*rds_lut data has been joined. Additional data tables can be joined, so that many table attributes can be shown at one time. To undo the joins between the data tables click on the *AREA*rds attribute table making it active and from the 'Table' menu select 'Remove All Joins'.

In ArcGIS Format:

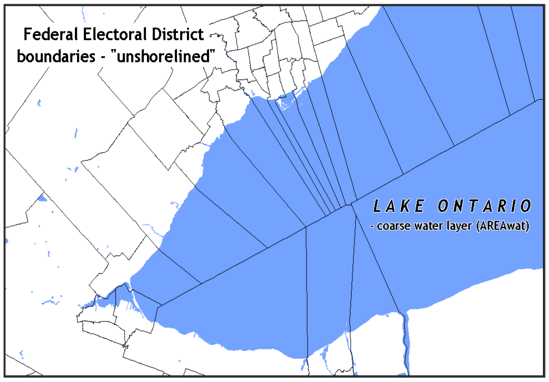
1. Open the appropriate project file (*AREA*rds.mxd).
2. Select the 'Add Data' button to open the corresponding attribute data file (*AREA*rds_lut.dbf) you wish to join.
3. Select the *AREA*rds theme, right click and select 'Joins and Relates' selecting 'Join…' from the sub-menu of choices.
4. Complete the 'Join Data' GUI as shown below using the Uniqueid and Rds_id fields as the common field between the tables. Once complete hit 'OK'.
5. Once the join is complete select the *AREA*rds theme, right click and select 'Open Attribute Table'. Once open, you can now scroll through the results of the join.



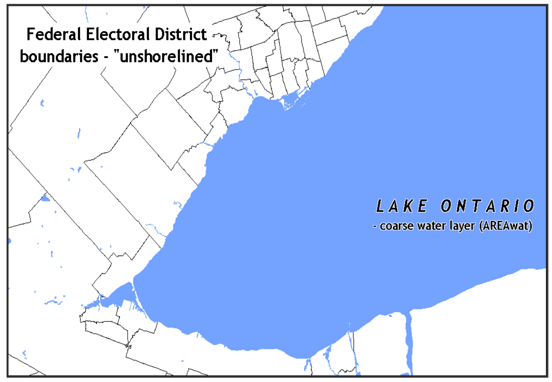
Additional data tables can be joined, so that many table attributes can be shown at one time. To undo the joins between the data tables select the *AREA*rds attribute table, right click and select 'Joins and Relates' selecting 'Remove Join(s)' from the sub-menu of choices. Select the table you wish to remove the join from the list provided (i.e. *AREA*rds_lut.dbf).

Appendix H: Shorelined vs Unshorelined Boundaries

DMTI Spatial's standard boundaries are all referred to as "unshorelined". Unshorelined means that the boundary will not necessarily reflect the physical shoreline. DMTI Spatial products packaged with boundary files will be shipped with a generalized nationwide coarse water file (CANwat). It is recommended when viewing DMTI Spatial's boundary files, that the coarse water file be placed above the boundary file as seen in the following diagrams.



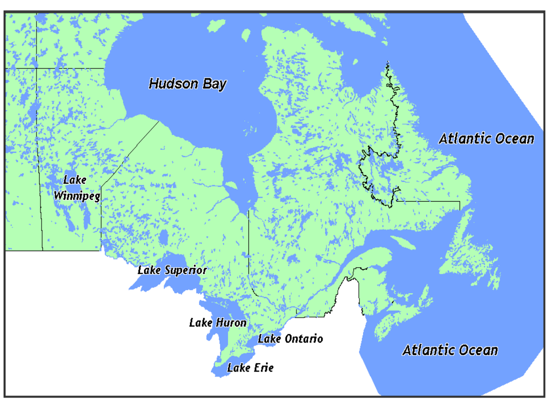
"Unshorelined" boundaries shown with coarse water layer beneath the boundary file – Not recommended



Unshorelined" boundaries shown with coarse water layer on top - Recommended

DMTI Spatial produces a higher resolution water file that is supplied with the purchase of CanMap Streetfiles and CanMap RouteLogistics. This detailed water file (*AREA*hy) is available in topographic coverage areas only, and may be viewed with DMTI Spatial's boundary files using the same layering technique described above.

In custom orders, "Shorelined" boundaries are also available from DMTI Spatial. These boundaries are created using a subset of the coarse water file. Major water bodies are extracted, and then superimposed onto the boundaries, creating a "shorelined" effect.



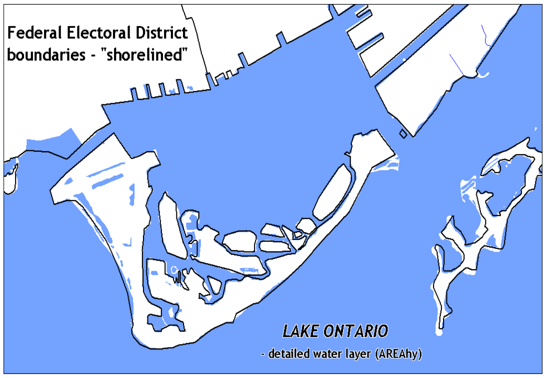
Entire coarse water layer - CANwat



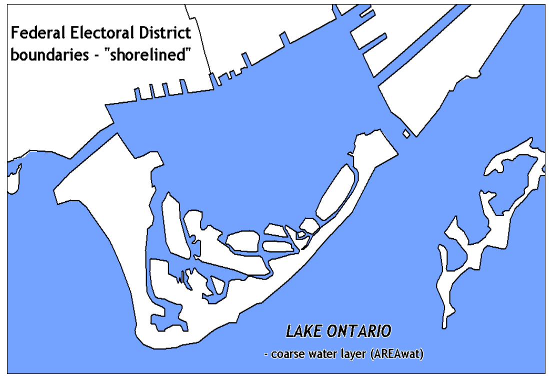
Major water body subset from CANwat used to shoreline boundaries

Note: To receive "shorelined" boundaries, please contact your DMTI Spatial Account Manager.

It is not recommended that you view the "shorelined" boundaries with the detailed water file (*AREA*hy), as the two files will not align with each other.



Detailed water layer (*AREA*hy) shown with "shorelined" census boundaries



Coarse water layer (*AREA*wat) shown with the same "shorelined" census boundaries

Appendix I: Census Subdivision Boundaries and Data

Note: Please refer to the document *Cen96CSD.pdf* that is included in your shipment, for a full description and detailed file structure of all the CSD boundaries and data included in the Canada directory.

Location

\Canada\ directory

Directories included: Census\1996\Csd\Bdy
Census\1996\Csd\Data

Description

Census Subdivision is the general term applied to municipalities (as determined by provincial legislation) or their equivalent (for example, Indian reserves, Indian settlements and unorganized territories).

Structure & Contents

The census data is broken up into the releases listed below. For each release, the filename is provided along with a description and structure of its contents.

- Age, Sex and Marital Status - Age_csd
- Families: Number, Type and Structure - Fam1_csd
- Structural Type of Dwelling and Household Size - Dwel_csd
- Immigration and Citizenship - Imm_csd
- Mother Tongue, Home Language and Official/Non-Official Languages - Lan1_csd, Lan2_csd
- Aboriginal - Abor_csd
- Ethnic Origin and Population Group - Eth1_csd, Eth2_csd
- Labour Market Activities - Lab1_csd, Lab2_csd
- Household Activities - Hous_csd
- Place of Work and Mode of Transportation - Plac_csd
- Education - Educ_csd
- Mobility and Migration - Mob_csd
- Sources of Income, Earnings, Total Income and Family and Household Income - Inc1_csd, Inc2_csd
- Families: Social and Economic Characteristics - Fam2_csd
- Occupied Private Dwellings and Housing Costs - Dwl2_csd

Appendix J: Format Specific Instructions

ArcView and ArcGIS Users:

Shape Files

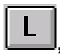
When CanMap data is supplied in ESRI Shapefile (.shp) format, both ArcView 3.x and ArcGIS related files are included. Refer to the following table to distinguish between these files. Please note that not all file extensions exist for each CanMap layer.

File Extension	File Description
*.shp	Part of standard ESRI Shapefile
*.shx	Part of standard ESRI Shapefile
*.dbf	Part of standard ESRI Shapefile
*.sbn	ArcView 3.x/ArcGIS - Spatial Index (part)
*.sbx	ArcView 3.x/ArcGIS - Spatial Index (part)
*.aih	ArcView 3.x - Attribute Index (part)
*.ain	ArcView 3.x - Attribute Index (part)
*.ixs	ArcView 3.x - Geocoding Index (part)
*.mxs	ArcView 3.x - Geocoding Index (part)
*.avl	ArcView 3.x - Legend Properties
*.apr	ArcView 3.x - Project file
*.aig	ArcGIS - Geocoding Index
*.loc	ArcGIS - Geocoding Properties
*.lyr	ArcGIS - Layer Properties
*.prj	ArcGIS - Datum and Projection Properties
*.mxd	ArcGIS - Project file

CanMap Label Tool for ArcView 3.x

DMTI Spatial provides ArcView 3.x users with a tool that allows the user to automatically label certain layers in the CanMap Streetfiles and CanMap RouteLogistics project files. Using this tool eliminates the build-up of labels contained within the project file itself thereby maintaining a manageable file size.

Overview

There are two custom built buttons to manage the standard labeling of CanMap Streetfiles and CanMap RouteLogistics. The first is the CanMap Label Button used to create the standard labels for the current extent of the view 

, and the second is the CanMap Remove Labels Button used to remove labels from the entire view . They are both located in the view's button bar to the left of the Help button.

Usage

CanMap Label Button:

1. Click the CanMap Label Button
2. Before the labels are drawn, all existing labels will be deleted, except for user-customized labels (i.e. labels that have been manually added using Arcview's label tool, or moved on selected themes shown in Table 1).

CanMap Remove Labels Button:

1. Click the CanMap Remove Labels Button
2. The user will be asked to confirm that they do in fact want to proceed in the deletion of the labels. If they choose No, all labels will be left as as. If they click Yes, another prompt will ask "Do you want to delete CanMap Label tool created labels only?" If they click 'Yes', only the labels created with the CanMap Label Button will be deleted. By choosing 'No', all labels (including user-customized) will be deleted.

Notes

- Themes are labeled depending on the current scale of the view. (See Table 1 for the themes that are labeled and the scale ranges during which labels are applied). Each theme has predefined scale ranges to determine when it will be labeled (e.g. municipalities are labeled at scales between 1:1,000,000 and 1:100,000).

- Labels are created only for the visible extent of the view when using the CanMap Label Button.

- When the user changes the scale of the view (i.e. zooming in or out or manually changing the scale value) all labels in the entire view (except for any user-customized labels) will be deleted.

- When the user moves a label (i.e. using the pointer tool), that label is subsequently considered to be a user-customized label.

- If the user manually adds a label (using ArcView's label tool) to one of the layers labeled by the CanMap Label Button, the label will automatically be changed to the size and font style defined by the CanMap Label Button for that layer. The label is then subsequently considered to be a user-customized label.

- If the newly added label overlaps another existing user-customized label with the same text, the newly created label will not be applied. If the existing label is not a user-customized label then the existing label will be removed and replaced by the new user-customized label.

- Labels created with the CanMap Label Button will function like labels created using ArcView's auto-labeling tool (e.g. if you change the size and/or font style for one label in the roads theme, all labels for the roads theme will change as well.) User-customized labels are independent.

- The CanMap Label Tool is not customizable, but does not prohibit the user in any way from using ArcView's label or auto-labeling tools to custom-label any theme or themes in any manner so desired.

Table 1: Labeled themes and their associated scale ranges in CanMap Streetfiles and CanMap RouteLogistics

Theme	Minimum Scale	Maximum Scale
LLP	0	100,000
WLP	0	100,000
MUN	100,000	1,000,000
RMS	1,000,001	3,500,000
HRD	25,001	50,000
HWY	50,001	275,000

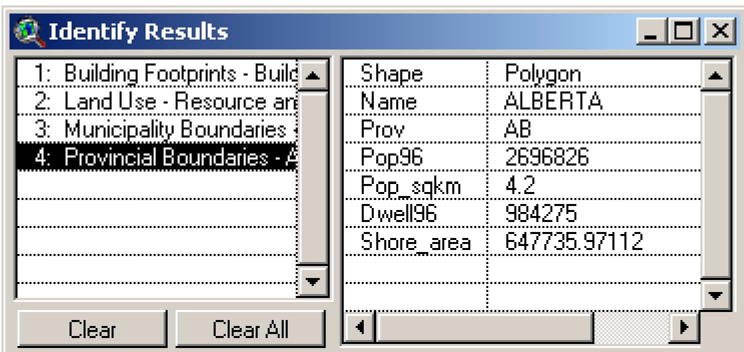
CanMap Identify Tool for ArcView 3.x

DMTI Spatial provides ArcView 3.x users with a custom built tool that allows the user to click anywhere on the map and identify features from all CanMap themes in the view regardless of what themes are active. ArcView's identify tool only identifies the features from the active theme.

Usage

CanMap Identify Tool Button:

1. Click the CanMap Identify Tool Button
2. Click anywhere on the map
3. A table called 'Identify Results" will open displaying all of the layers in the location where the user clicked.



MapGuide Users:

Unique ID Field

A unique identification field (UniqueId) has been added to the end of most file structures for the specific purpose of generating reports. The UniqueId field (Decimal 11,0) is in no way related to other unique identification fields found in other files such as rds, hrd, hwy.

CanMap® Data Set Configuration for MapGuide

1. Installing the Files

Once the files are on the local hard drive, it is recommended that you move the sdf and dbf files to another directory where they can be better protected from the Internet. Please refer to MapGuide's user manual for permissions and security recommendations.

The following folders will be provided:

Folder	Description
dbms\Canada	databases for Canada directory
dbms*AREA*	databases for desired geographic area
docs	files for setup etc
images	wmf, bmp, tiff, jpeg, etc.
maps	map window files
mlf	map layer files, if available
reports	Cold Fusion templates
scripts	if available
sdf*AREA*	MapGuide spatial data files for desired geographic area
sdf\Canada	MapGuide spatial data files for Canada directory

2. Web Setup (if required)

If the files are moved to other directories, drives or machines than specified above, you will have to create new paths. MapGuide and Cold Fusion support UNC paths but they may require setup where they are installed to take advantage of this distributed environment. In order to create reports, you may have to modify paths in the Map Window Files (.mwf). See the MapGuide documentation on MapGuide's website www.mapguide.com.

3. MapGuide Setup

In MapGuide Server Admin, there is a path setting for both sdf directories. To set up the pathways, see instructions below:

- Default path: C:\Program Files\Autodesk\MapGuideServer4\sdf
- sdf search path: default path + your own paths to sdf directories separating each sub-directory listing with semi-colons
- The path directories are NOT case sensitive.

4. ODBC Setup

- The database setups are required so that thematic maps for roads or land use can be displayed and report queries can be generated.

- You will receive a set of dbf files for each project. It is recommended that you import the dbf files into an ODBC compliant relational database management system (e.g. Access, SQL Server) that allows the key fields to be indexed. Index the fields that define the unique database field and any field that has a theme generated from it (e.g. Carto field in the street layers).

- DSN's can be set up through the Control Panel > ODBC or using the Cold Fusion Administrator.

- Settings are NOT case sensitive.

- If you are using Control Panel, each Data Source must be a System DSN not a User DSN.

- If you are not using Cold Fusion, then you will have to convert the .cfm templates into your preferred reporting language.

5. MapGuide Window File Setup

The files you will receive will point to DMTI_MAPGUIDE. Each mwf file will have to be modified to use your Intra/Internet server name.

- Open the mwf file and select all the layers in the left hand column. > Right click over these layers and select Properties… > replace dmti_mapguide with your web server name (e.g. www. .com)

- From the pull-down menus:

    - Select File > Properties… to bring up the mwf properties.
    - Select the Reports Tab > Under the Properties URL
    - Replace dmti_mapguide with your web server name for each report.
    - Reports that can be generated include; all Roads layers (rds,hwy,hrd), POI layers, the lur layer and the mun layer.
    - Select the Zoom Goto Tab to replace dmti_mapguide with your web server name.
    - Zoom Goto's are provided for the Municipal Centroids (munc) layer.

- Select OK for the Properties Dialogue box and Save the Map Window File.